AMPEX

ACE™ 25
Computerized Editing System

Parts Lists and Schematics

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Prepared by

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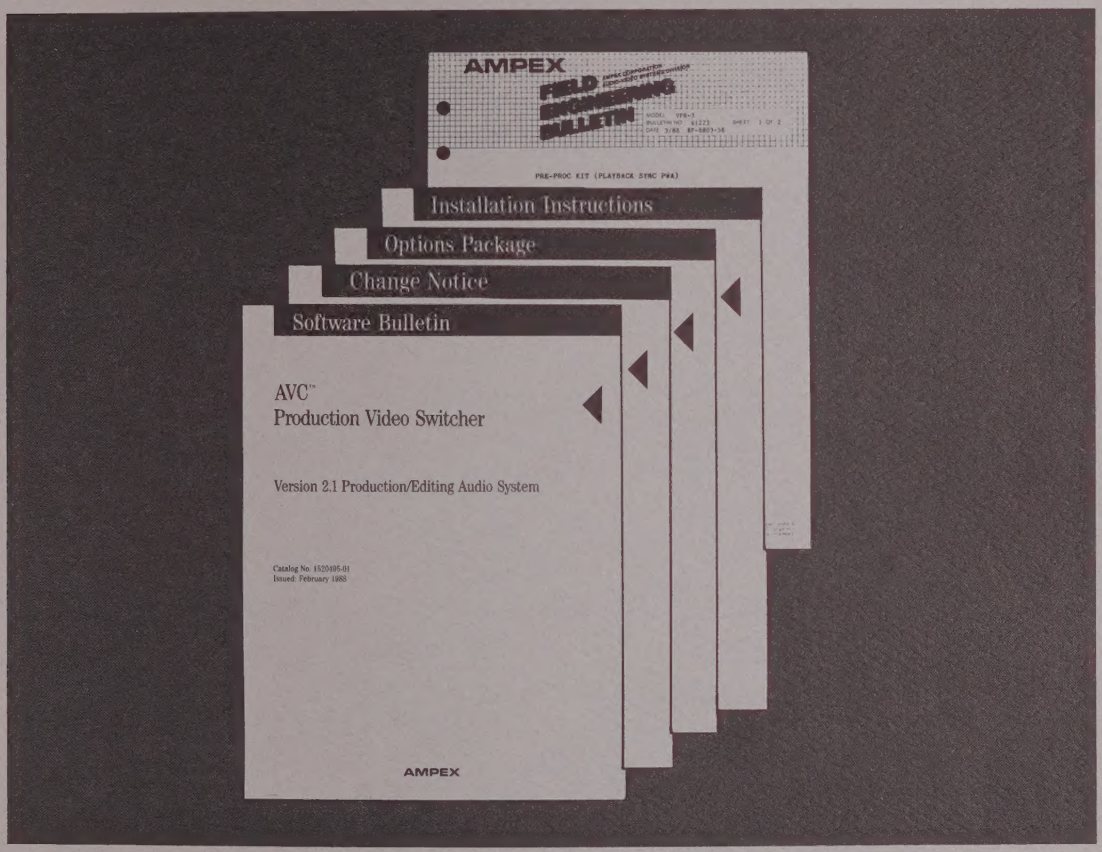

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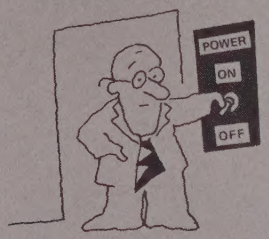
Safety and First Aid Suggestions

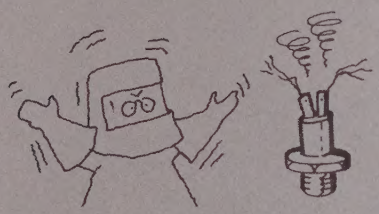
Regardless of how well electrical equipment is designed, personnel can be exposed to **dangerous electrical shock** when protective covers are removed for maintenance or other activities. Therefore, it is incumbent on the user to see that all safety regulations are consistently observed and that each individual assigned to the equipment has a clear understanding of the first aid related to electrical hazards.

In addition, the following safety practices must be followed:

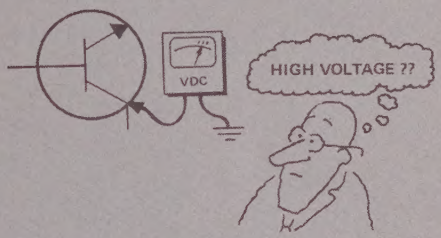


Do not attempt to adjust unprotected circuit controls or to dress leads with power **on.**

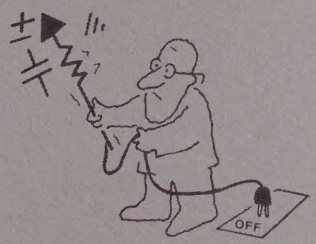
Always avoid placing parts of the body in series between ground and circuit points



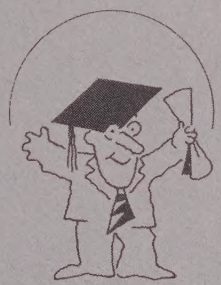
To avoid burns, do not touch heavily loaded or overheated components without precaution.



Remember that some semiconductor cases and solid-state circuits carry high voltages.



Do not asssume that all danger of electrical shock is removed when power is **off.** Charged capacitors can retain dangerous voltages for a long time after power is turned off. These capacitors should be discharged through a suitable resistor before any circuit points are touched.



Don't take chances. Be fully trained. Ampex equipment should be operated and maintained by fully qualified personnel.

If someone seems unable to free himself while receiving an electrical shock, **turn power off** before rendering aid. Muscular spasm or unconsciousness can make a victim unable to free himself from the electrical power.

WARNING

DO NOT TOUCH VICTIM OR HIS CLOTHING BEFORE POWER IS DISCONNECTED OR YOU CAN ALSO BECOME A SHOCK VICTIM.

If power cannot be turned off immediately, **very carefully** loop a length of dry nonconducting material (such as rope, insulating material, or clothing) around the victim and pull him free of the power. Carefully avoid touching him or his clothing until free of power. Immediately start the appropriate first aid procedures.

Good Practices

In maintaining the equipment covered in this manual, please keep in mind the following, standard good practices:

When connecting any instrument (oscilloscope, waveform, monitor, etc.) to a high-frequency output, use the appropriate termination resistor at the input of the instrument, unless the instrument is terminally internally.

When inserting or removing printed wiring assemblies (PWAs), cable connectors, or fuses, always turn off power to the affected portion of the equipment. After power is removed, allow sufficient time for the power supplies to bleed down before reinserting PWAs.

When troubleshooting, remember that FETs and other metal-oxide semiconductor (MOS) devices may appear defective because of leakage between traces or component leads on the printed wiring board. Clean the printed wiring board and recheck the MOS device before assuming it is defective.

When replacing MOS devices, follow standard practices to avoid damage caused by static charges and soldering.

When removing components from PWAs (particularly ICs), use care to avoid damaging PWA traces.

Warning

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case, the user, at his own expense, will be required to take whatever measures may be necessary to correct the interference.

Note

This system was tested using the shielded interconnect cables provided with the unit. Failure to use the cables provided may result in radio interference outside acceptable limits.

Notice

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

Cet appareil digital n'excède pas aux normes classe A pour bruits radioélectriques des appareils digitals dans le Règlements sur le Brouillage Radioélectriques du Bureau de Communications du Canada

INTRODUCTION

This manual contains parts lists and schematics for the ACE 25 Computerized Editing System, Ampex Assembly No. 1431700.

- **Indentured List of Assemblies** - List of assemblies in sequence of appearance in the manual.
- **Numerical List of Assemblies** - List of assemblies in numeric sequence.
- **Numerical List of Schematics** - List of schematics in numeric sequence.

RELATED DOCUMENTS

1520498 Operation Manual

NOTE: This issue of the manual reflects the documentation as of 16 December 1988.

INDENTURED LIST OF ASSEMBLIES

1 2 3 4 5 6 7 TITLE	ASSEMBLY NO.	PAGE NO.
1 SYSTEM		
Computerized Editing System, ACE 25	1431700	1-1
2 EDIT CONTROLLER		
Edit Controller Assembly	1430873	2-1
Regulator PWA	1431446	2-3
Color Field 1 Detector PWA	1431454	2-7
I/O PWA	1431457	2-16
8 Channel ILC PWA	1431025	2-22
DC Fan Assembly	1431721	2-33
AC Harness Assembly	1430879	2-34
Power Supply/Regulator Harness Assembly	1431718	2-35
Regulator/PC Motherboard Power Cable Assembly	1431720	2-36
Disk Drive Power Harness Assembly	1431722	2-37
Printer Cable Assembly	1431592	2-38
GPI Cable Assembly	1431593	2-39
RS232 Cable Assembly	1431630	2-40
Computer Monitor Cable Assembly	1430997	2-41
Serial Communications Cable Assembly	1430998	2-42
Disk Drive Cable Assembly	1431728	2-43
Input/Output Regulator Cable Assembly	1430960	2-44
Door Assembly	1430636	2-45
Reset Switch Cable Assembly	1431289	2-46
Diagnostic Port Cable Assembly	1430992	2-47
Power Supply (See page A-1)	1431581	
3 KITS		
Component Switcher Interface		
Component Switcher Interface Kit	1430874	3-1
Dumpster Bus Interface PWA	1430956	3-2
SPU Extender PWA	1445919	3-9
ACE 25 Backplane PWA	1445916	3-15
Regulator-Backplane Power Cable Assembly	1431719	3-23
Dumpster-Backplane Cable Assembly	1431726	3-24
Component Video Switcher Kit		
Component Video Switcher Kit	1431589	3-25
Component Video Switcher 1 PWA	1445928	3-27
Video Timing Reference PWA	1445955	3-51
Buffer Reference Cable Assembly	1431587	3-59
Color Field/Switcher Cable Assembly	1430931	3-60

INDENTURED LIST OF ASSEMBLIES

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Composite Video Switcher Kit		
Composite Video Switcher Kit	1431633	3-61
Composite Switcher 1 PWA	1433400	3-62
Reference Video Timing PWA	1443382	3-81
Color Field-Switcher Cable Assembly (See page 3-60)	1430931	
Buffer Reference Cable Assembly (See page 3-59)	1431587	
Composite Switcher Interface Kit		
Composite Switcher Interface Kit	1431267	3-91
Dumpster Bus Interface PWA (See page 3-2)	1430956	
SPU Extender PWA (See page 3-9)	1445919	
ACE 25 Backplane PWA (See page 3-15)	1445916	
Regulatgor-Backplane Power Cable Assembly (See page 3-23)	1431719	
Dumpster-Backplane Cable Assembly (See page 3-24)	1431726	
Audio Switcher Kit		
Audio Switcher Kit	1431590	3-93
Audio Switcher PWA	1445924	3-94
Table Top Monitor Kit		
Table Top Monitor Kit	1430588	3-115
Rack Mount Monitor Kit		
Rack Mount Monitor Kit	1431588	3-117
4 MISCELLANEOUS		
Miscellaneous Parts Kit	1430875	4-1
Monitor Extension Cable Assembly	1430925	4-2
Composite 5 Meter Cable, Option 1	1431626	4-3
Composite 10 Meter Cable, Option 2	1431627	4-4
Component 5 Meter; Cable, Option 3	1431628	4-5
Component 10 Meter Cable, Option 4	1431629	4-6
Coaxial Cable Assembly	1431006	4-7
Serial Control Cable Assembly	1431018	4-8
XLR Audio Cable Assembly	1431019	4-9
Dumpster-Video Timing Cable Assembly	1431727	4-10
APPENDIX A		
Ppwer Supply (Condor Inc.)	SDM200E	A-1

INDENTURED LIST OF ASSEMBLIES

TITLE 1 2 3 4 5 6 7	ASSEMBLY NO.	PAGE NO.
APPENDIX B		
Motherboard PWA (Everex Systems).....	EV1800-B	B-1
APPENDIX C		
Keyboard (Key Tronics Corp).....	E03503051	C-1
APPENDIX D		
Floppy Drive Controller PWA (Western Digital Corp.).....	WD1002A-FOX	D-1

NUMERICAL LIST OF ASSEMBLIES

ASSEMBLY NO.	REV	TITLE	PAGE NO.
1430588	A	Table Top Monitor	3-11
1430636	C	Door Assembly	2-45
1430873	D	Edit Controller Assembly	2-1
1430874	B	Component Switcher Interface Kit	3-1
1430875	B	Miscellaneous Parts Kit	4-1
1430879	E	AC Harness Assembly	2-34
1430925	A	Monitor Extension Cable Assembly	4-2
1430931	A	Color Field/Switcher Cable Assembly	3-60
1430956	F	Dumpster Bus Interface PWA	3-2
1430960	A	Input/Output Regulator Cable Assembly	2-44
1430992	B	Diagnostic Port Cable Assembly	2-47
1430997	A	Computer Monitor Cable Assembly	2-41
1430998	A	Serial Communications Cable Assembly	2-42
1431006	A	Coaxial Cable Assembly	4-7
1431018	A	Serial Control Cable Assembly	4-8
1431019	A	XLR Audio Cable Assembly	4-9
1431025	D	8 Channel ILC PWA	2-22
1431289	A	Reset Switch Cable Assembly	2-46
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1431454	D	Color Field 1 Detector PWA	2-7
1431457	C	I/O PWA	2-16
1431587	B	Buffer Reference Cable Assembly	3-59
1431588	B	Rack Mount Monitor Kit	3-117
1431589	B	Component Video Switcher Kit	3-25
1431590	A	Audio Switcher Kit	3-93
1431592	C	Printer Cable Assembly	2-38
1431593	C	GPI Cable Assembly	2-39
1431626	A	Composite 5 Meter Cable, Option 1	4-3
1431627	A	Composite 10 Meter Cable, Option 2	4-4
1431628	A	Component 5 Meter Cable, Option 3	4-5
1431629	A	Component 10 Meter Cable, Option 4	4-6
1431630	C	RS232 Cable Assembly	2-40
1431633	B	Composite Video Switcher Kit	3-61
1431700	B	Computerized Editing System, ACE 25	1-1
1431718	C	Power Supply/Regulator Harness Assembly	2-35
1431719	B	Regulator-Backplane Power Cable Assembly	3-23
1431720	B	Regulator/PC Motherboard Power Cable Assembly	2-36
1431721	A	Fan Assembly	2-33
1431722	B	Disk Drive Power Harness Assembly	2-37
1431726	B	Dumpster-Backplane Cable Assembly	3-24
1431727	-	Dumpster-Video Timing Cable Assembly	4-10
1431728	C	Disk Drive Cable Assembly	2-43
1433400	A	Composite Switcher 1 PWA	3-62
1443382	1	Timing Generator PWA	3-81

NUMERICAL LIST OF ASSEMBLIES

ASSEMBLY NO.	REV	TITLE	PAGE NO.
1445916	A	ACE 25 Backplane PWA	3-15
1445919	A	SPU Extender PWA	3-9
1445924	B	Audio Switcher PWA	3-94
1445928	A	Component Video Switcher 1 PWA	3-27
1445955	B	Video Timing PWA	3-51

NUMERICAL LIST OF SCHEMATICS

SCHEMATIC NO.	REV	TITLE	PAGE NO.
1430958	A	Dumpster Bus I/F PWA	3-5
1431027	A	8 Channel ILC PWA	2-25
1431448	C	Regulator PWA	2-5
1431456	B	Color Field 1 Detector PWA	2-12
1431459	C	I/O PWA	2-19
1443384	X1	Timing Generator PWA	3-85
1443402	B	Composite Switcher 1 PWA	3-71
1445918	A	ACE 25 Backplane PWA	3-18
1445921	A	SPU Extender PWA	3-12
1445926	B	Audio Switcher PWA	3-100
1445930	B	Component Switcher 1 PWA	3-36
1445957	B	Video Timing PWA	3-85

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER -00
1	1430373-01	EDIT CONTROLLER ASSEMBLY		1
2	1430875-01	MISCELLANEOUS PARTS KIT		1
3	1431701-01	KEYBOARD		1
4	1431870-01	SYSTEM SOFTWARE (VER 1.0)		1
5	1430987	NTSC SET UP INSTRUCTIONS (2)		1
6	1430988	PAL SET UP INSTRUCTIONS (2)		1
7	1430989	PAL M SET UP INSTRUCTIONS (2)		1
8	1430588-AA	TABLE TOP MONITOR KIT (2)		1
9	1430874-01	COMPONENT SWITCHER INTERFACE KIT		REF
10	1430925-AA	MONITOR EXTENSION CABLE ASSY, 5 MTR		REF
11	1430925-AB	MONITOR EXTENSION CABLE ASSY, 10 MTR		REF
12	1430925-AC	MONITOR EXTENSION CABLE ASSY, 20 MTR		REF
13	1430925-AD	MONITOR EXTENSION CABLE ASSY, 30 MTR		REF
14	1431588-AA	RACK MOUNT MONITOR KIT (2)		1
15	1431589-01	COMPONENT VIDEO SWITCHER KIT		REF
16	1431590-01	AUDIO SWITCHER KIT		REF
17	1431599-01	COMPOSITE DATA VIDEO KIT		REF
18	1431610-01	DIAGNOSTIC KIT		REF
19	1430588-AB	TABLE TOP MONITOR KIT (2)		1
20	1431612-01	SELF INSTRUCTIONS PACKAGE		REF
21	1431613-01	COMMENT KEYBOARD		REF
22	1431626-01	CABLE, OPTION 1, COMPOSITE, 5 MTR		REF
23	1431627-01	CABLE, OPTION 2, COMPOSITE, 10 MTR		REF
24	1431628-01	CABLE, OPTION 3, COMPONENT, 5 MTR		REF
25	1431629-01	CABLE, OPTION 4, COMPONENT, 10 MTR		REF
26	1431633-01	COMPOSITE VIDEO SWITCHER KIT		REF
27	1431018-AA	CABLE ASSY, SERIAL CONTROL, 5 MTR		REF
28	1431018-AB	CABLE ASSY, SERIAL CONTROL, 10 MTR		REF
29	1431018-AC	CABLE ASSY, SERIAL CONTROL, 20 MTR		REF
30	1431018-AD	CABLE,ASSY, SERIAL CONTROL, 30 MTR		REF
31	1431588-AB	RACK MOUNT MONITOR KIT (2)		1

NOTES:

1. ITEMS 9-13, 15-18, 20-30 ARE OPTION AND SHALL BE SELECTED PER SALES ORDER.
2. SELECT ONE.

LM-1431700

ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER -01
1	1430879-01	HARNESS, AC		1
2	1430917-01	PANEL, I/O SWITCHER BLANK		1
3	1431446-01	PWA, REGULATOR		1
4	1431454-01	PWA, COLOR FIELD 1 DETECTOR		1
5	1431457-01	PWA, I/O		1
6	1431566-01	CPU MOTHERBOARD		1
7	1431569-01	MONOCHROME DISPLAY ADAPTER		1
8	1431572-01	FLOPPY DISK CONTROLLER		1
9	1431578-01	8 CHANNEL ILC		-
10	1431581-01	POWER SUPPLY		1
11	1431582-01	DISK DRIVE		2
12	1431592-01	CABLE, PRINTER		1
► 13	1431593-01	CABLE, GPI		1 ◄
14	1431630-01	CABLE, RS232		2
15	1431631-01	PLATE, MODEL ID		1
16	1431713-01	DOOR		-
17	1431705-01	CARD CAGE WELDMENT		1
18	1431706-01	CHASSIS, BOTTOM		1
19	1431707-01	MOUNT, DISK DRIVE		1
20	1431708-01	PANEL, CONTROLLER I/O		1
21	1431710-01	DAUGHTER BOARD RETENTION BAR		1
22	1430992-01	CABLE, DIAGNOSTIC PORT		1
23	1431712-01	TOP COVER		1
24	1431714-01	RACK MOUNT FLANGE		2
25	1430920-01	NUT PLATE LATCH MTG		1
26	1431716-01	HINGE		-
27	1431718-01	HARNESS, POWER SUPPLY-REGULATOR		1
28	1431720-01	HARNESS, REGULATOR-MOTHERBOARD		1
29	1431721-01	DC FAN ASSEMBLY		1
30	1431722-01	HARNESS, DISK DRIVE POWER		1
31	1430997-01	CABLE, COMPUTER MONITOR		1
32	1430993-01	CABLE, SERIAL COMMUNICATIONS		-
33	1431728-01	CABLE, DISK DRIVE		1
34	1431732	INTERCONNECT DIAGRAM, EDIT CONTROLLER		(-)
35	6000037-03	LABEL, SYSTEM ID		1
36	6000054-03	PLATE, TRADEMARK		1
37	6000055-02	LABEL, CLASS A COMP		1

LM.1430873

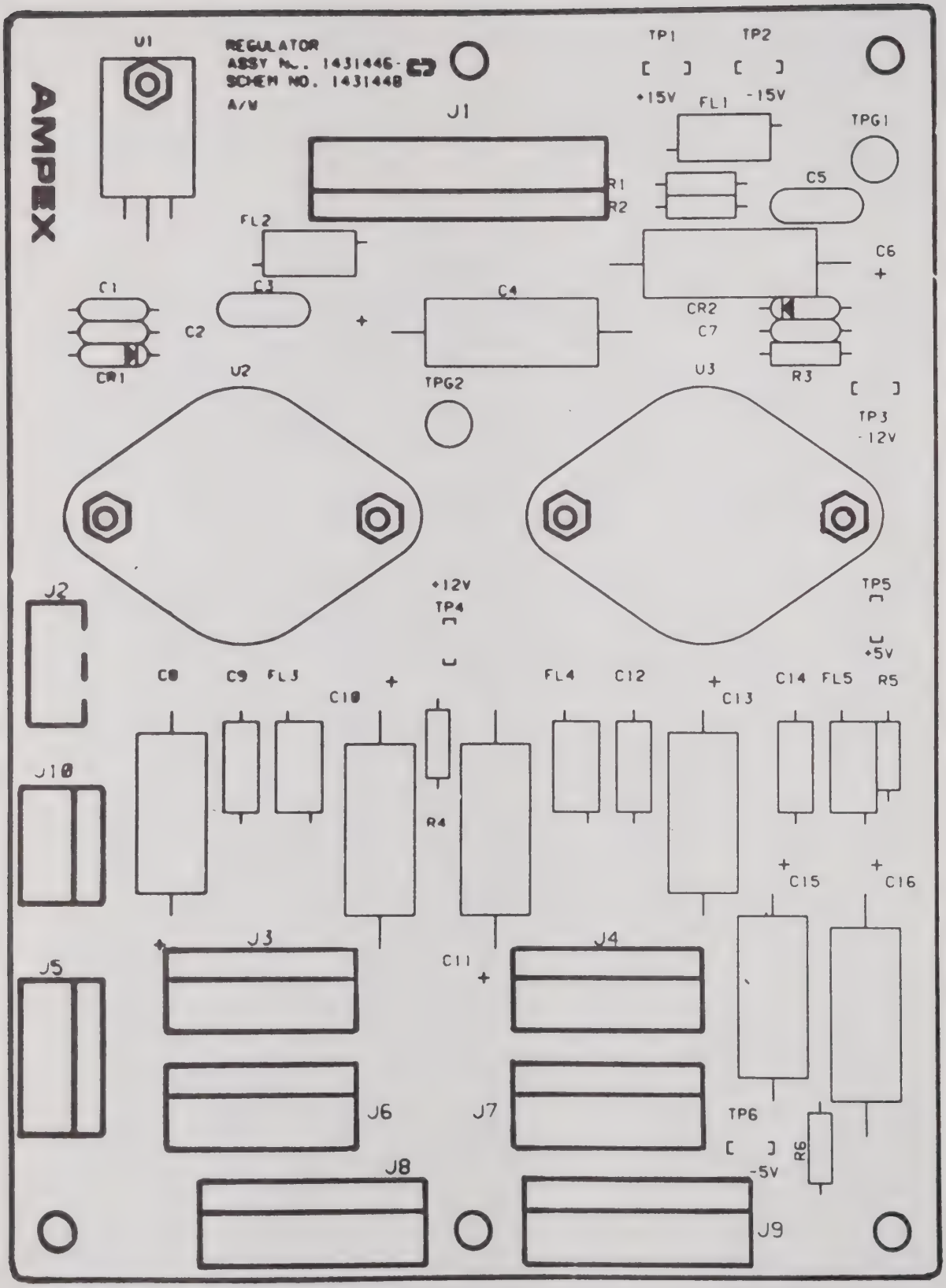
AMPEX | Ampex Corporation Redwood City, California	CODE IDENT NO 92739	LIST OF MATERIALS	LM-1430873 SHEET 2 OF 2	REV L

ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER -01
38	251-004	PLUG FILLER		1
39	530-543	BOARD GUIDE		4
40	1430999-01	BATTERY PACK		1
41	177-442	KIT, CONN MTG		14
42	1430547-01	SCREEN, FAN		1
43	070-002	FUSE, 3 AMP, SLOBLOW (FOR 110V OPERATION)		1
44	070-993	FUSE, 1½ AMP, SLOWBLOW(FOR 220V OPERATION)		1
45	250-173	FOOT, RUBBER		4
46	260-007	GROMMET, RUBBER		1
47	260-013	GROMMET, RUBBER		1
48	260-046	GROMMET, RUBBER		2
49	650-319	IDENT. LABEL, 110 VOLTS		AR
50	CD752	SCREWS, METRIC		AR
51	CD754	WASHERS, METRIC		AR
52	CD753	NUTS, METRIC		AR
53	1430994-01	BRACKET, MB CAGE, SUPPORT		2
54	498-684	NUT, HEX FINISHING, 1/2 X 28		2
55	502-064	WASHER, LOCK, 1/2 INT-TH		2
56	018-461	ADHESIVE THREAD LOCK		A/R
57	310-374	LATCH ASSY, DOOR LATCHING		1
58	118-104	SWITCH, MAIN POWER		1
59	650-355	INDICATOR, SHOCK WATCH		1
60	250-188	RUBBER BUMPER		A/R
61	471-071	SCREW, MACH, PAN HD, 6-32 X .375 LG		4
62	501-009	WASHER, FLAT, #6		4
63	501-188	WASHER, FLAT, #6, SMALL PATTERN		4
64	502-003	WASHER, LOCK, #6		4
65	492-009	NUT, HEX, 6-32		4
66	650-345	LABEL, CORCOM FUSES		1
67	1430960-01	CABLE I/O PANEL POWER		1
68	474-500	SCREW, 4-40 X .312 LG		2
69	498-477	NUT, SPRING, 4-40		2
70	250-282	BUMPER, RECESSED, VINYL		4
71	1431025-01	PWA, 8 CHANNEL ILC		1
72	1430998-01	SERIAL COMMUNICATION CABLE ASSY		1
73	1431289-01	RESET SWITCH CABLE ASSEMBLY		1
74	1430839-01	PWA MONOCHROME DISPLAY ADAPTER <1>		1
75	1431286-01	COVER, POWER SUPPLY		1
76	1430636-01	DOOR ASSEMBLY		1
77	1430339-01	SHIELD, DISK DRIVE		1
78	650-320	IDENT. LABEL, 220 VOLTS		AR
79	1431298-01	LABEL, POWER SUPPLY		1
80	1430638-01	LABEL, RESET/DRIVES		1
	NOTES:	<1> ALTERNATE FOR ITEM NO. 7		

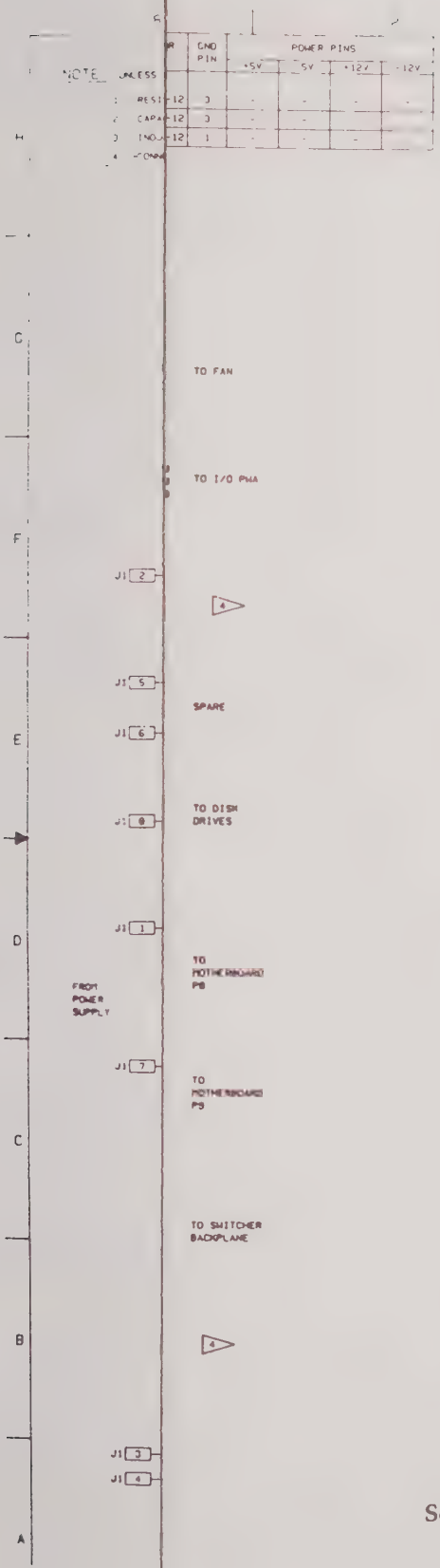
LM-1430873

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER -01
1				
2				
3	1431448	SCHEMATIC	(C)	
4				
5				
6	063-037	CAPACITOR, ELECT., 50uF, 25V, -10, +75%	C4,6,10,11,16	5
7	063-042	CAPACITOR, ELECT., 15uF, 25V, -10, +75%	C8,13,15	3
8				
9	064-278	CAPACITOR, CER., DIPPED, .33uF, 50V, ±10%	C3,5	2
10				
11	064-760	CAPACITOR, CER., TUBULAR, .1uF, 50V, ±5%	C9,12,14	3
12	064-653	CAPACITOR, CER., TUBULAR, 0.1uF, 50V,±20%	C1,2	2
13	064-750	CAPACITOR, CER., TUBULAR, 1.0uF, 50V, ±20%	C7	1
14	135-379	HEADER ASSEMBLY, 4 POSTS	J2	1
15	135-999	HEADER ASSEMBLY, 5 POSTS	J3,4,6,7	4
16	135-996	HEADER ASSEMBLY, 4 POSTS	J5	1
17	135-997	HEADER ASSEMBLY, 6 POSTS	J8,9	2
18	135-998	HEADER ASSEMBLY, 8 POSTS	J1	1
19				
20				
21	051-770	FERRITE-CHOKE	FL1-5	5
22				
23	587-299	INTEGRATED CIRCUIT, LM320K-12	U3	1
24	587-300	INTEGRATED CIRCUIT, LM340K-12	U2	1
25	587-440	INTEGRATED CIRCUIT, LM340T-12	U1	1
26				
27	013-630	DIODE, SILICON, IN4003	CR1,2	2
28				
29	173-620	TERMINAL, TURRET	TPG1,2	2
30	187-259	TERMINAL, PC	TP1-6	6
31				
32	135-899	HEADER ASSEMBLY, 3 POSTS, STR	J10	1
33				
34	066-812	RESISTOR, C.F., 10^ OHMS, 1/4W, ±5%	R1-6	6
35	CD 752	SCREW, METRIC	REF: U1-3	AR
36	CD 753	NUT, METRIC	REF: U1-3	AR
37	CD 754	WASHER, METRIC	REF: U1-3	AR

LM-1431446



Assembly No. 1431446-01D. Regulator PWA



Schematic Diagram No. 1431448C.
Regulator PWA

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER -01
1				
2				
3	1431456	SCHEMATIC		(B)
4				
5	1430933-01	PROM ASSY, ADDRESS DECODER 16L8	U33	1
6	1430883-01	BRACKET, DAUGHTER BOARD MOUNTING		1
7				
8	064-278	CAPACITOR, CER., 0.33uF, 50V, ±10%	C2,7,12,17,104	5
9	064-284	CAPACITOR, CER., 1.0uF, 50V, ±10%	C20	1
10	064-653	CAPACITOR, CER., 0.1uF, 50V, ±20%	C5,6,10,11,13-16,18, 19,22-34,36,41-44, 46-65,67-80,83-92, 96-103	80
11	064-316	CAPACITOR, CER., 2.2uF, 50V, ±20%	C21	1
12	064-763	CAPACITOR, CER., .01uF, 50V, ±10%	C3,4,8,93-95	6
13				
14				
15				
16	034-225	CAPACITOR, MICA, 220pF, 500V, ±1%	C39	1
17	034-252	CAPACITOR, MICA, 82pF, 500V, ±1%	C9	1
18	034-285	CAPACITOR, MICA, 75pF, 500V, ±1%	C37	1
19	034-367	CAPACITOR, MICA, 91pF, 500V, ±1%	C40	1
20	034-540	CAPACITOR, MICA, 51pF, 500V, ±1%	C38	1
21	064-657	CAPACITOR, MICA, 2pF, 500V, ±0.5pF	C35	1
22	034-543	CAPACITOR, MICA, 240pF, 500V, ±5%	C105	1
23				
24	037-812	CAPACITOR, TANT., 10uF, 25V, ±20%	C1,81	2
25	037-892	CAPACITOR, TANT., 47uF, 10V, ±20%	C82	1
26	037-962	CAPACITOR, TANT., 4.7uF, 10V, ±20%	C45,66	2
27				
28				
29	135-989	HEADER ASSEMBLY, 10 POSTS	J12	1
30	135-994	HEADER ASSEMBLY, 5 POSTS	J15	1
31	140-692	CONN, SIGNAL CKT, RECPT, RF, 1 COAX SOCKET	J1,6	2
32	140-437	CONN, SIGNAL CKT, PLUG	J2-5,7-11,13,14, 16	12
33				
34				
35				

LM-1431454

AMPEX | Ampex Corporation Redwood City California	CODE IDENT NO 92739	LIST OF MATERIALS	LM-1431454 SHEET 2 OF 4	REV E

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER -01
36	595-071	CRYSTAL, OSC, 28.6049 MHZ	Y2	1
37	595-072	CRYSTAL, OSC, 28.6364 MHZ	Y1	1
38	595-073	CRYSTAL, OSC, 35.4689 MHZ	Y3	1
39	581-467	L.E.D., AMBER	DS1	1
40	581-468	L.E.D., GREEN	DS2	1
41	581-857	L.E.D., ARRAY, RED	DS3	1
42				
43	051-770	FERRITE - CHOKE	L1,2	2
44				
45	000-645	INTEGRATED CIRCUIT, 1235	U65,71	2
46	002-093	74HC00	U39,63	2
47	002-916	74HC02	U28,29	2
48	002-947	74HC74	U26	1
49	003-045	74HC08	U19,40,41	3
50	003-048	74HC32	U42	1
51	003-049	74HC86	U55	1
52	003-056	74HC244	U36	1
53	003-143	74HC04	U37	1
54	003-151	74HC374	U30,34	2
55	003-302	4040	U31	1
56	004-697	74F30	U62	1
57	003-494	74HC191	U18,24,25	3
58	003-496	74HC423	U17	1
59	003-238	74HCT244	U67,69,70	3
60	003-816	74HCT245	U64,72	2
61	590-579	75452B	U15,16	2
62	004-462	74HC107	U4,5	2
63	004-641	74AC00	U6,57	2
64	004-656	LM1881	U2	1
65	004-664	74AC32	U22,44	2
66	004-665	74AC20	U10	1
67	005-033	74AC74	U8,9,20,23,43, 45,46,52,54,58	10
68	005-646	74AC139	U21	1
69	005-647	74AC191	U48,49	2
70	005-648	74HC93	U66	1
71	005-649	74AC08	U53,59,60	3
72	005-650	74ACT00	U27	1
73	005-651	74AC02	U56	1
74	005-652	74ACT32	U7,51	2
75	005-653	74AC04	U11	1
76	005-716	AM686C	U13	1
77	587-771	78L05ACZ	U1,14	2
78	589-380	79L05ACZ	U3,12	2
79	005-127	74HCT11	U61	1
80	002-950	INTEGRATED CIRCUIT, 74HC273	U35	1

LM-1431454

AMPEX	Ampex Corporation Redwood City, California	CODE IDENT NO 92739	LIST OF MATERIALS	LM-1431454 SHEET 3 OF 4	REV E

ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER -01
81	005-652	INTEGRATED CIRCUIT, 74ACT32	U51	-
82	004-446	INTEGRATED CIRCUIT, 74HC14	U47	1
83	039-323	NETWORK, RESISTOR, 10K OHMS, 10 PIN SIP	RN1-5	5
84	066-663	RESISTOR, C.F., 220 OHMS, 1/4W, ±5%	R27,50	2
85	066-665	RESISTOR, C.F., 1K OHMS, 1/4W, ±5%	R31	1
86	066-666	RESISTOR, C.F., 2.7K OHMS, 1/4W, ±5%	R17,36	2
87	066-668	RESISTOR, C.F., 4.7K OHMS, 1/4W, ±5%	R26,28,44-49	8
88	066-810	RESISTOR, C.F., 10 OHMS, 1/4W, ±5%	R40-43	4
89	066-813	RESISTOR, C.F., 150 OHMS, 1/4W, ±5%	R30	1
90				
91				
92				
93				
94				
95				
96				
97				
98	042-378	RESISTOR, M.F., 8.25K OHMS, 1/4W, ±1%	R7,8	2
99	062-601	100K	R25,29	2
100	062-624	1K	R1,3,5,10,15,20	6
101	062-642	6.81K	R16	1
102	062-836	75	R24	1
103	062-847	100	R2,4	2
104	062-855	121	R23	1
105	062-877	221	R12,13,38	3
106	062-901	475	R19,21	2
107	062-932	1.50K	R37	1
108	062-966	4.75K	R39	1
109	062-983	10K	R14	1
110	066-012	40.2K	R22	1
111	066-703	487	R11	1
112	076-017	681K	R18	1
113	062-941	2.21K	R35	1
114	062-894	402	R34	-
115	076-347	82.5K	R32	1
116	066-014	RESISTOR, M.F., 47.5K OHMS, 1/4W, ±1%	R33	1
117				
118	058-539	RESISTOR, VAR., 1K OHMS, 1/2W, ±10%	R9	1
119	058-612	RESISTOR, VAR., 200 OHMS, 1/2W, ±10%	R6	-
120				
121	119-715	SWITCH, DIP, ROCKER, 4 X SPDT	SW1	1
122	187-055	TERMINAL, WIREWRAP	J2-A,B,C; J3-A,B,C; J4-A,B,C, J8-A,B; J10-A,B; J11-A,B,C;	33
123			J13-A,B,C; J14-A,B, J5-A,B,C; J7-A,B,C; J9-A,B,C, J16-A,B,C	
124	173-620	TERMINAL, TURRET, SWAGE	TPG1,2,4,5,8	5

LM-1431454

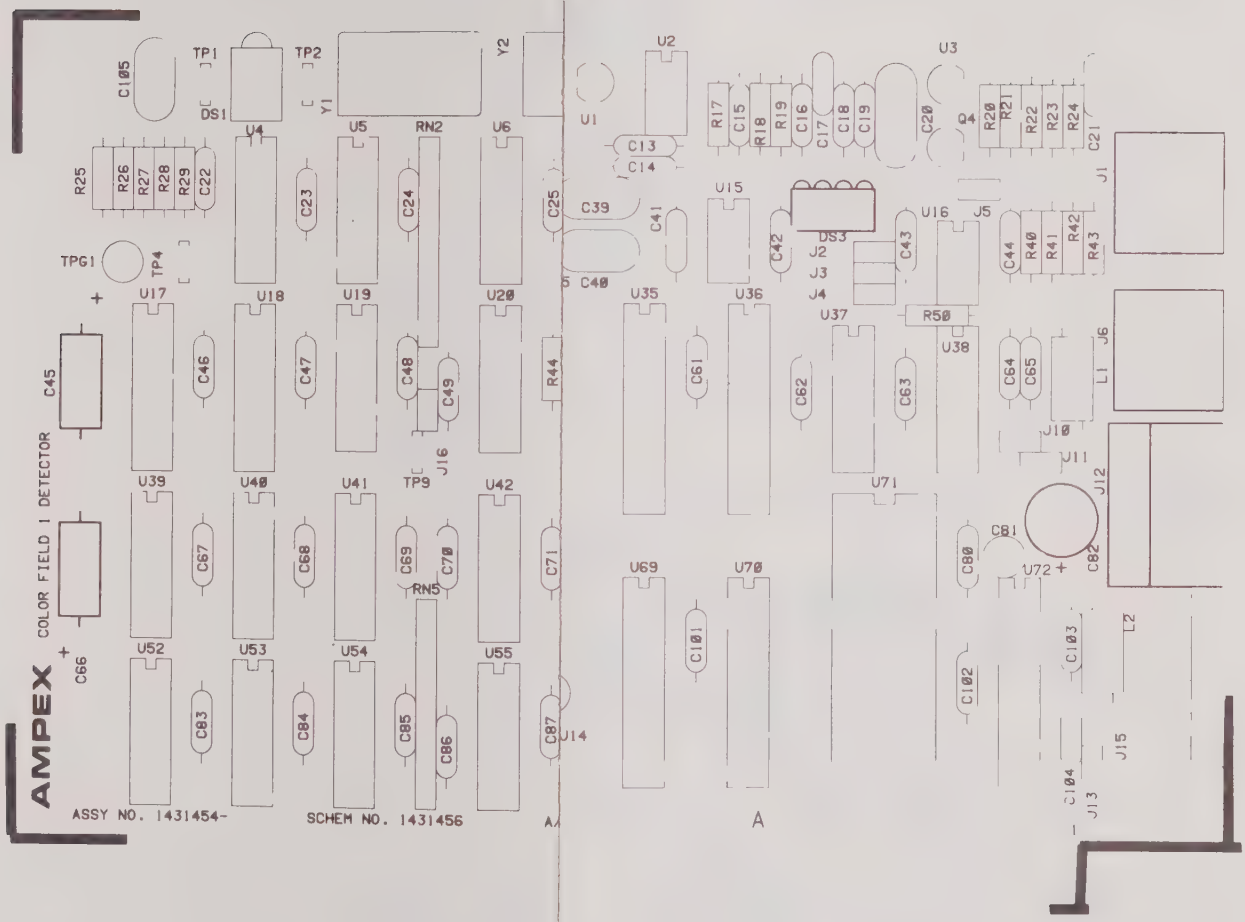
AMPEX | Ampex Corporation REDWOOD CITY, CALIFORNIA | CODE IDENT NO 92739 | LIST OF MATERIALS | LM-1431454 SHEET 4 OF 4 | REV E

ITEM NO	PART NUMBER		DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER -01
125	187-259		TERMINAL, PC	TP1-12	12
126					
127	580-098		TRANSISTOR, 2N3906	Q6	1
128	580-647		TRANSISTOR, 2N3904	Q1-5,7-11	10
129					
130	582-281		I.C. MTG HDW, SOCKET, DUAL IN-LINE, 28 PINS	REF:U65,71	2
131	582-139		I.C. MTG HDW, SOCKET, DUAL IN-LINE, 20 PINS	REF:U33	1
132					
133	003-822		INTEGRATED CIRCUIT, 74HCT74	1 U32	1
134	005-109		INTEGRATED CIRCUIT, 74HCT02	1 U38	1
135	005-806		INTEGRATED CIRCUIT, 74ACT04	1 U50	1
136					
137	CD752		SCREWS, METRIC	REF:ITEM #6	AR
138	CD754		WASHERS, METRIC	REF:ITEM #6	AR

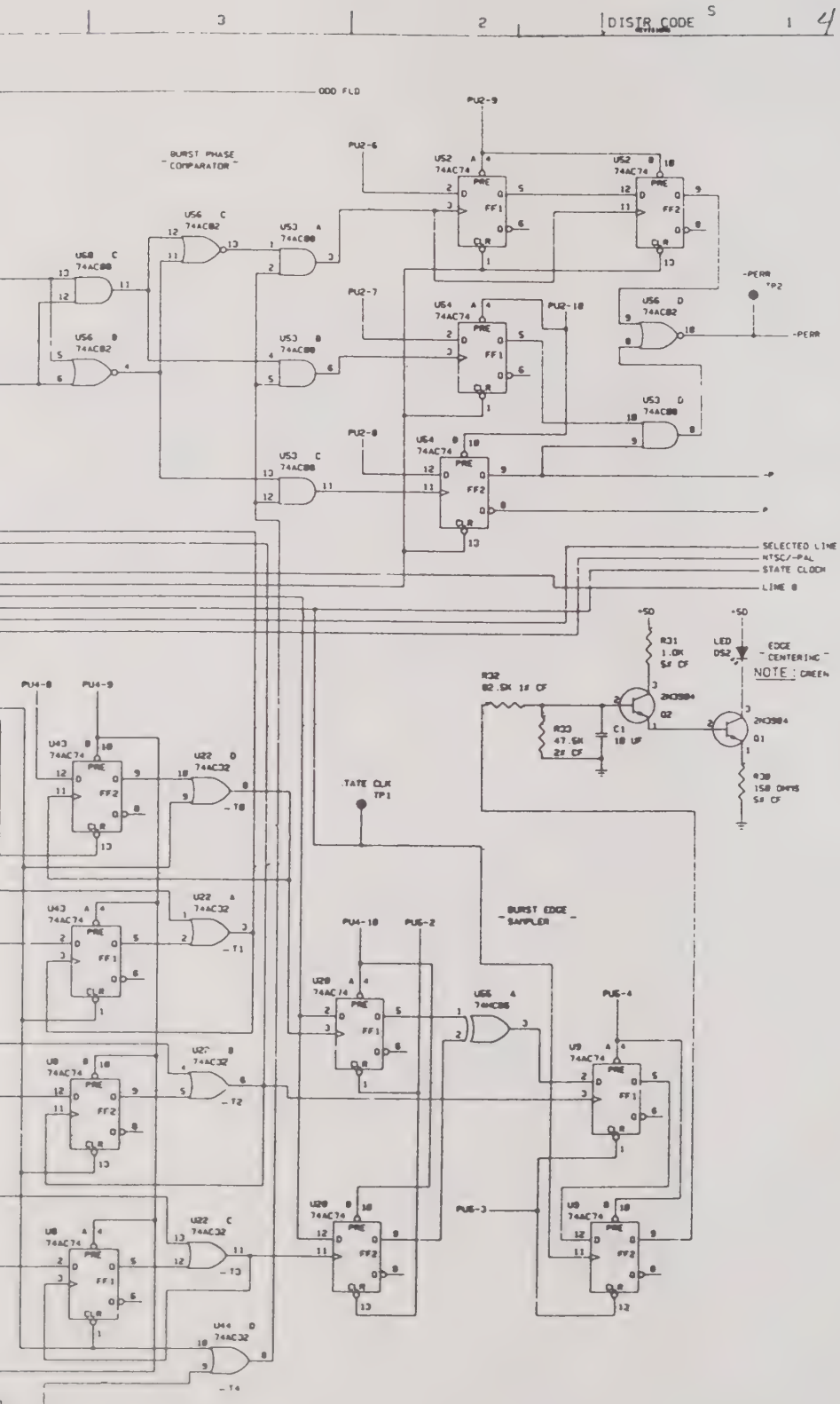
NOTES:

1. STATIC SENSITIVE, SPECIAL HANDLING REQUIRED PER AMPEX STD ME1-1.

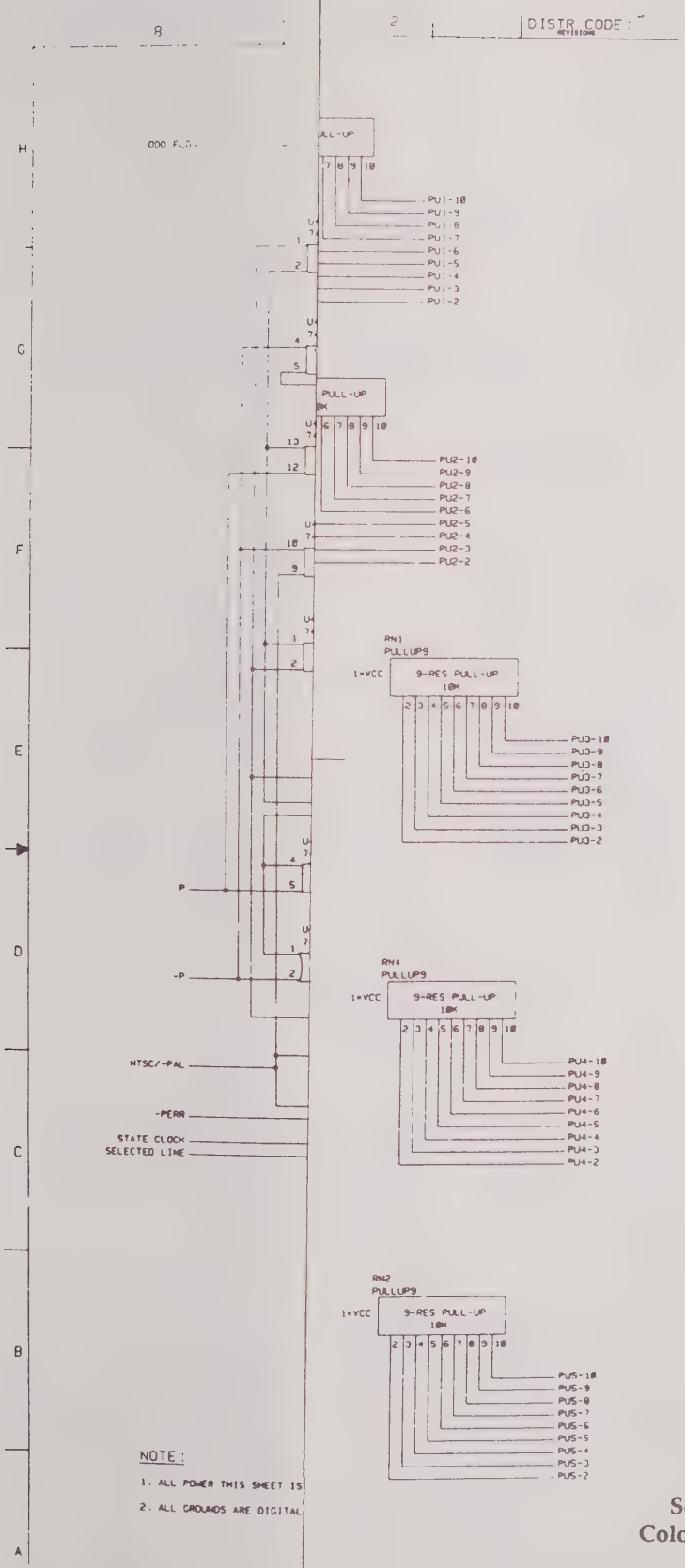
LM-1431454



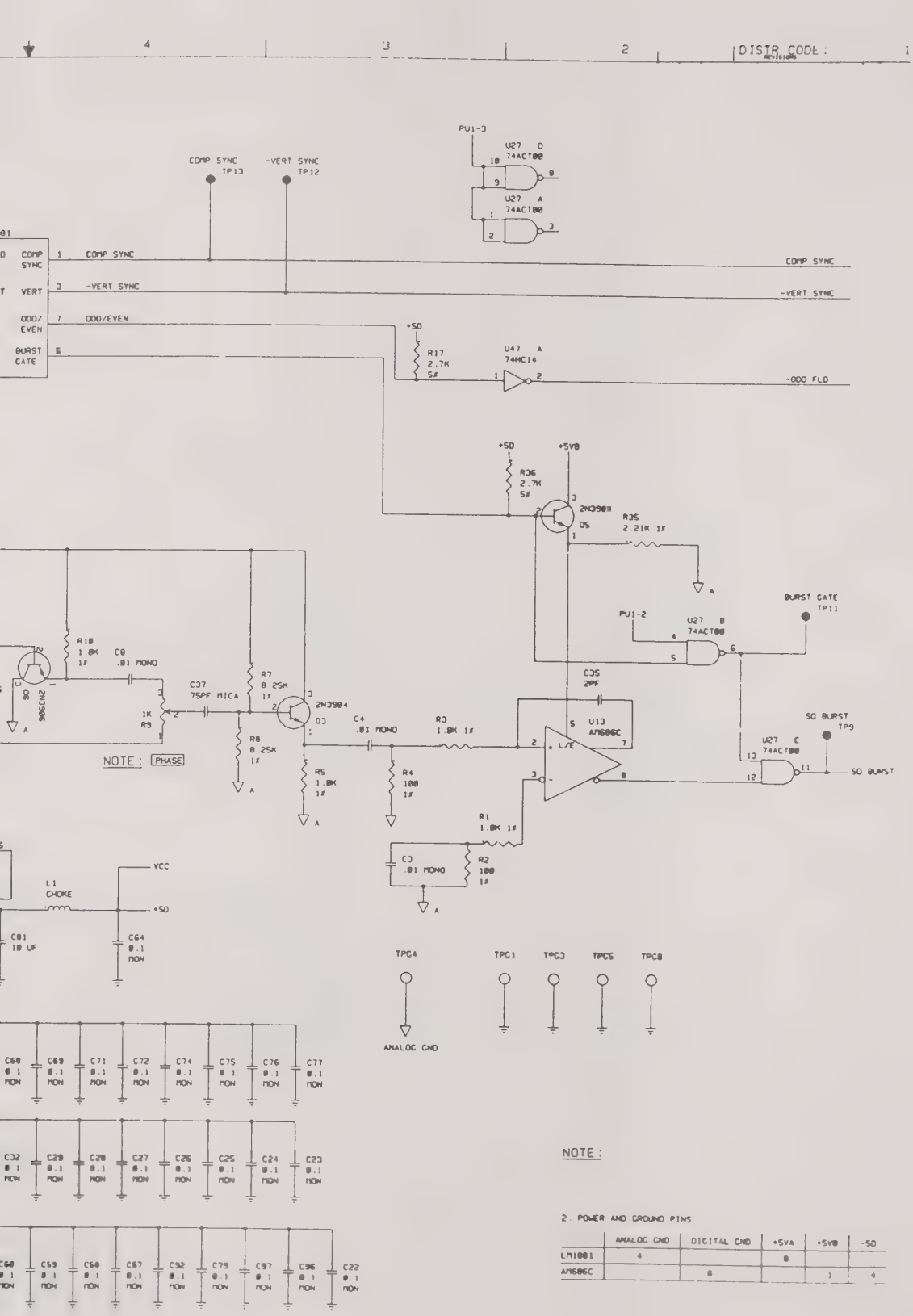
Assembly No. 1431454-01E.
Color Field 1 Detector PWA



Schematic No. 1431456B.
Color Field 1 Detector PWA
(Sheet 1 of 4)



Schematic No. 1431456B.
Color Field 1 Detector PWA
(Sheet 2 of 4)

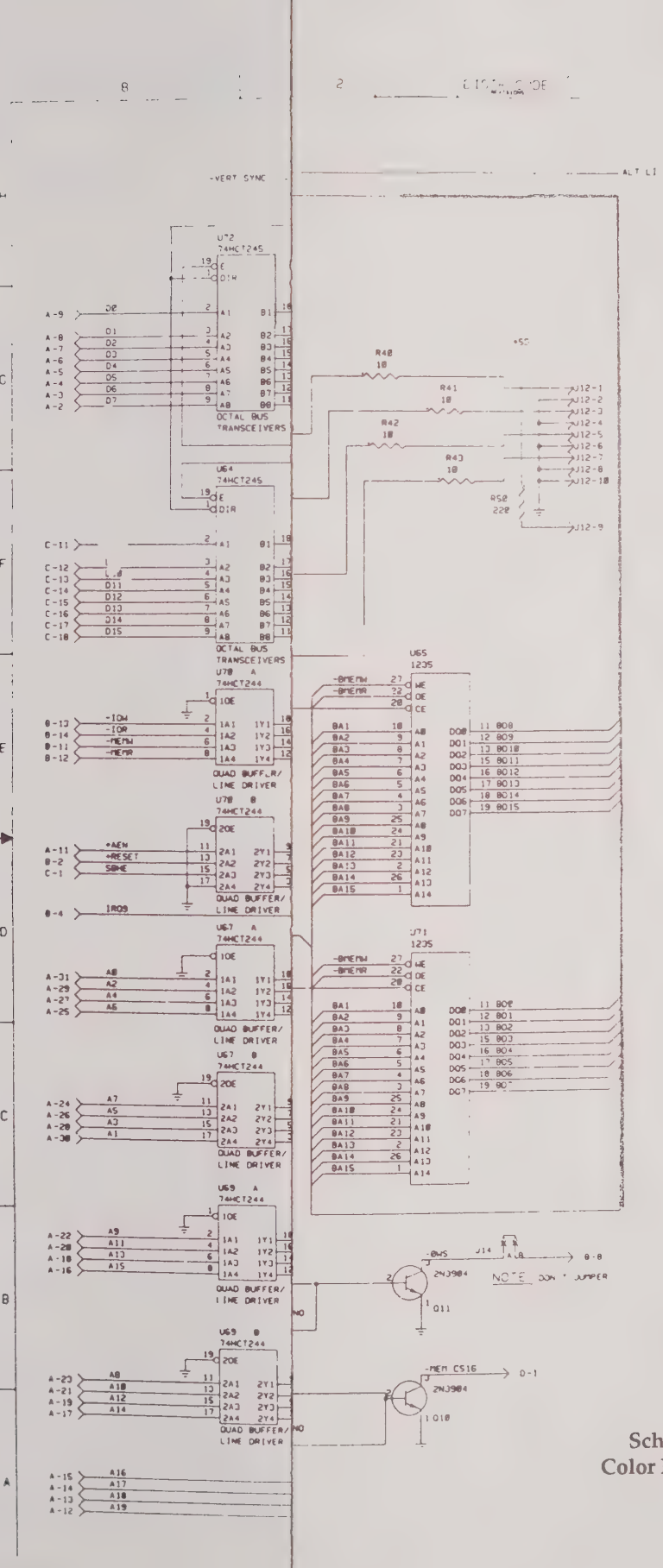


NOTE :

2. POWER AND GROUND PINS

	ANALOG GND	DIGITAL GND	+5VA	+5VB	-5D
LM1881	4		8		
AM686C		6		1	4

Schematic No. 1431456B.
Color Field 1 Detector PWA
(Sheet 3 of 4)



Schematic No. 1431456B.
Color Field 1 Detector PWA
(Sheet 4 of 4)

ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER -01
1				
2				
3	1431459	SCHEMATIC	(C)	
4				
5	141-854	CONN., RECEPT, RF, 1 COAX SOCKET	J12,13	2
6				
7	064-653	CAPACITOR, CER., 0.1uF, 50V, ±20%	C1-5,7,8	7
8				
9	064-687	CAPACITOR, CER., MONO., 120pF, 50V, ±1%	C9-12	4
10				
11	067-205	CAPACITOR, TANT., 10uF, 25V, ±20%	C6	1
12	135-235	HEADER ASSY, 10 POST, STR	J14	1
13	141-857	CONN., RECEPTACLE, RECT., 9 SOCKETS	J1-8,10,11	10
14	135-183	HEADER ASSY, 34 POSTS, STR	J9	1
15	140-536	CONN., SIGNAL CKT, PLUG, RF, 1 COAX PIN	P6	1
16	005-097	INTEGRATED CIRCUIT, 26LS32	U5,6	2
17	005-096	INTEGRATED CIRCUIT, 26LS31	U1,3	2
18	001-061	INTEGRATED CIRCUIT, 1489 ▷ 1	U2,4	2
19	590-868	INTEGRATED CIRCUIT, 74S244	U7	1
20				
21	076-004	RESISTOR, C.F., 180 OHMS, 1/4W, ±5%	R1-8	8
22	076-039	RESISTOR, C.F., 20 OHMS, 1/4W, ±5%	R11-14	4
23				
24	062-836	RESISTOR, M.F., 75 OHMS, 1/4W, ±1%	R9,10	2
25	582-330	I.C. MTG HDW, SOCKET, 14 PINS	REF: U2,4	2
26	118-094	SWITCH, SLIDE, SPDT	S1	1
27	582-333	I.C. MTG HDW, SOCKET, 20 PINS	REF: U7	1
28	616-569	CABLE, COAXIAL, 10 IN. LG		1
29	582-331	I.C. MTG HDW, SOCKET, 16 PINS	REF: U1,3,5,6	4
30	302-395	STRAP, CABLE, MOUSETAIL		1
31	173-620	TERMINAL, TURRET	TPG1,2	2
32	187-055	TERMINAL, WIREWRAP	J15-A,B	2
33	140-437	CONN., SIGNAL CKT, PLUG	J15	1
34	135-899	HEADER ASSY, 3 POSTS, STR	J16	1
35	039-231	NETWORK, RESISTOR, 2.7K OHMS, 10 PIN SIP	RN1,2	2
36	205-384	STANDOFF, METRIC	REF: J1-8,10,11	20
37	CO 572	SCREWS, METRIC	REF: J1-8,10,11	AR

LM-1431457

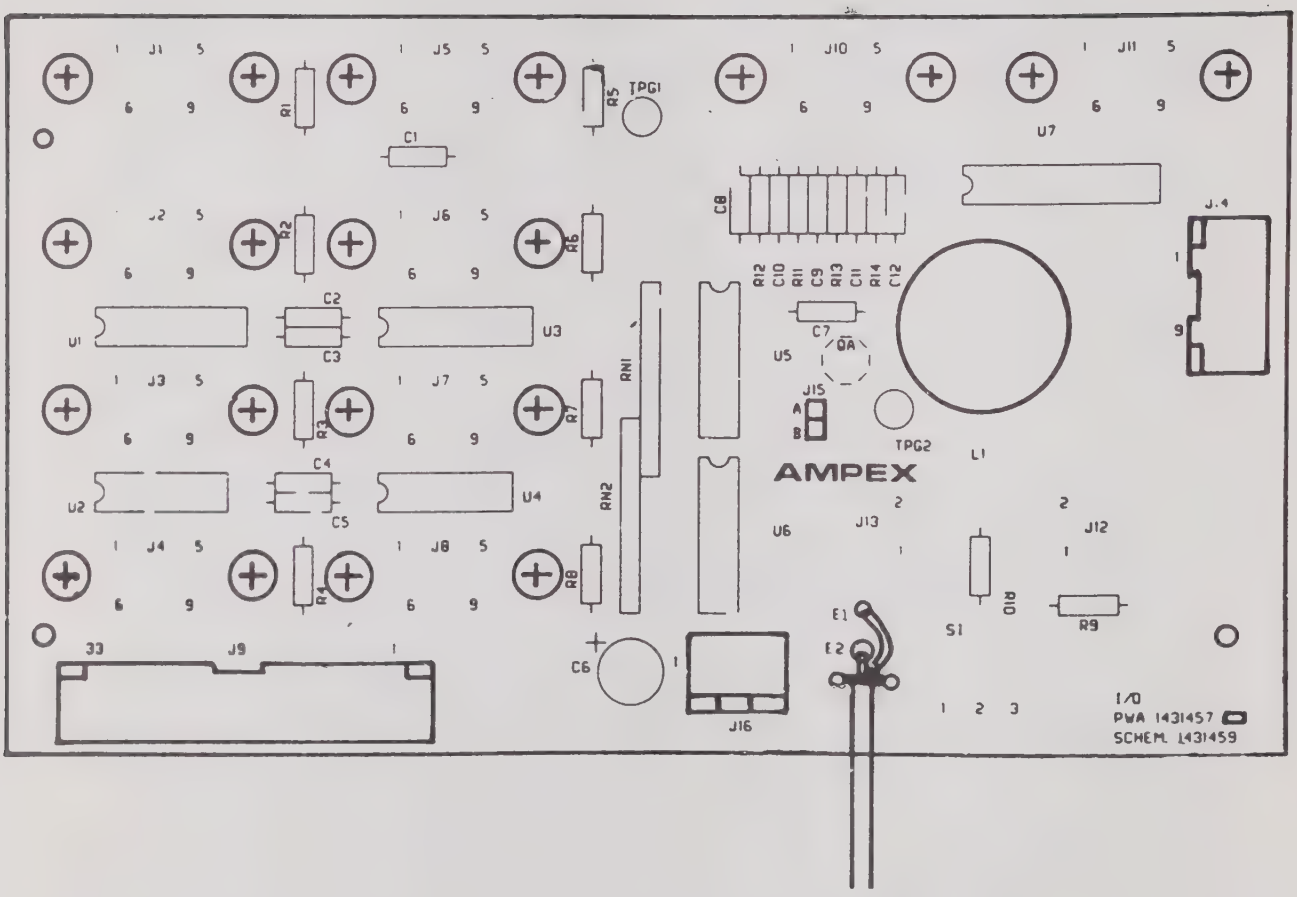
AMPEX | Ampex Corporation Redwood City, California | CODE IDENT NO 92739 | LIST OF MATERIALS | LM-1431457 SHEET 2 OF 3 | REV F

ITEM NO.	PART NUMBER		DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER -01
38	CD 726		SLEEVING, SHRINK		AR
39					
40					

NOTES:

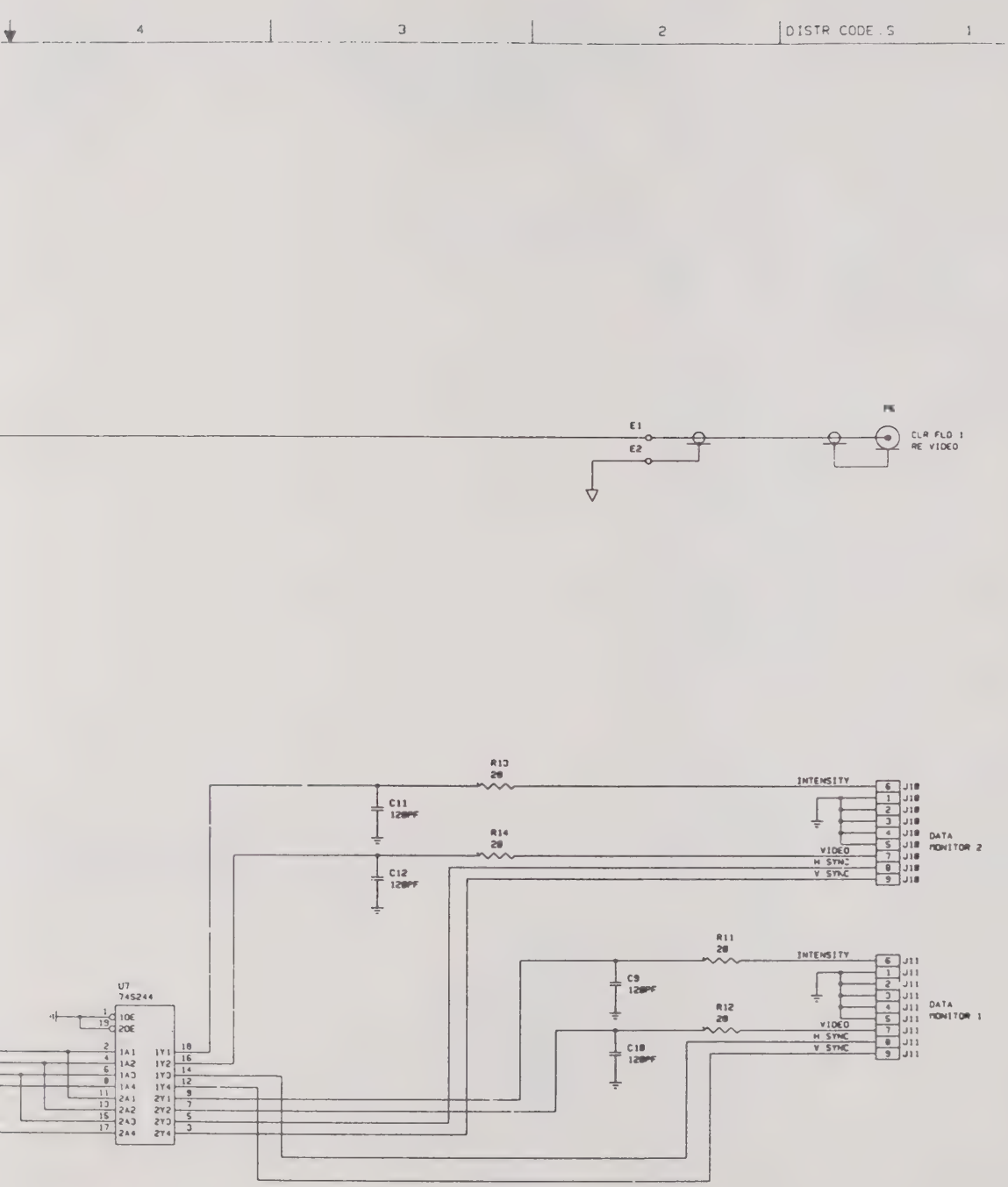
1 STATIC SENSITIVE, SPECIAL HANDLING REQUIRED PER AMPEX STD HE1-1.

LM-1431457

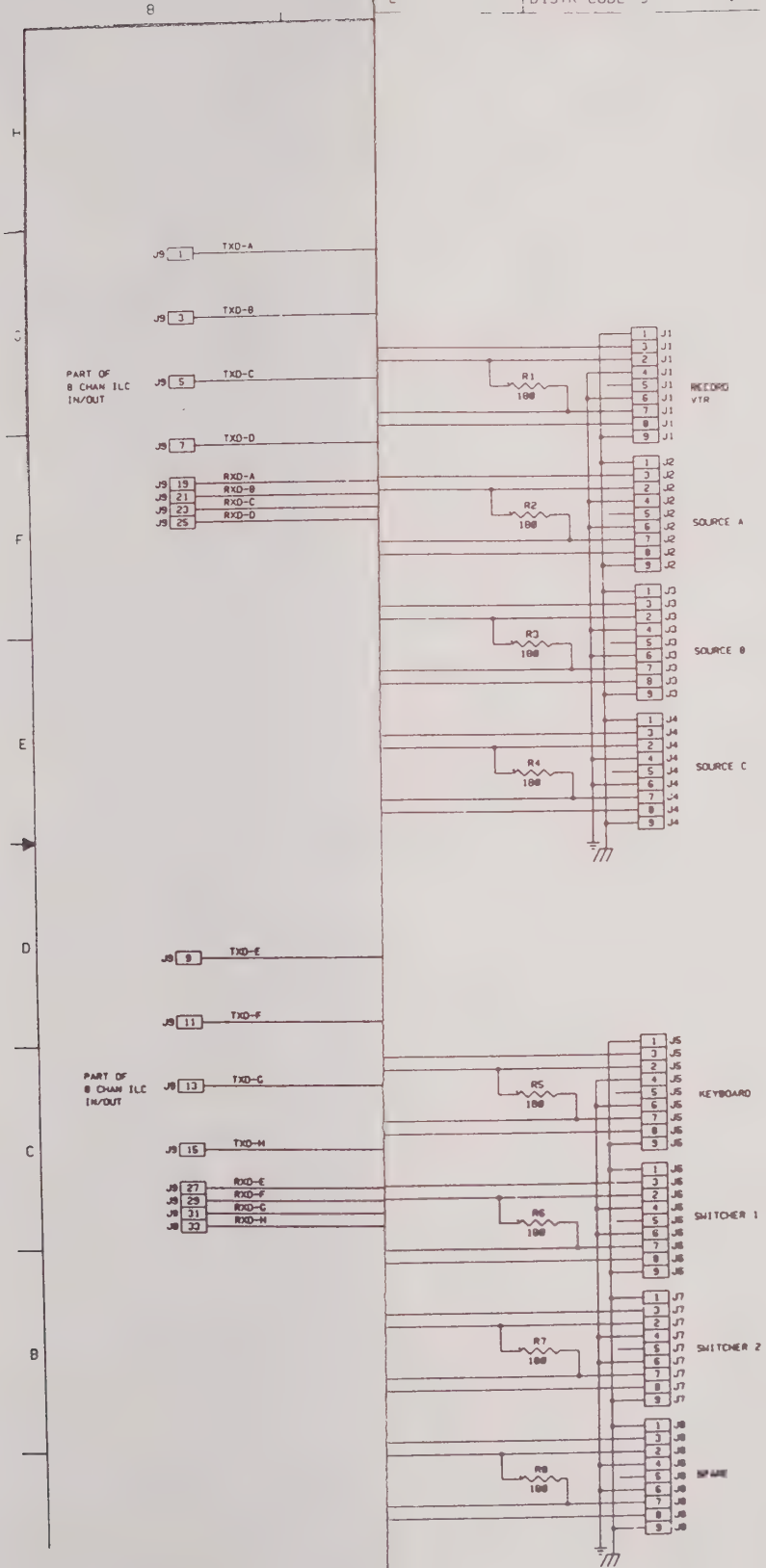


Assembly No. 1431457-01F. I/O PWA

Schematic No. 1431459C.
I/O PWA
(Sheet 1 of 3)



Schematic No. 1431459C.
I/O PWA
(Sheet 2 of 3)



Schematic No. 1431459C.
I/O PWA
(Sheet 3 of 3)

ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER -01
1				-
2				
3	1431027	SCHEMATIC		8
4				
5	1430974-01	PROM ASSEMBLY, ILC LOW (MSM27C256K-15) 005-895	1 U2	1
6	1430975-01	PROM ASSEMBLY, ILC HIGH (MSM27C256K-15) 005-895	1 U1	1
7	1430985-01	PROM ASSEMBLY, ARBITER PAL16R4BNC 004-518	U11	1
8	1430883-01	BRACKET, DAUGHTER BOARD MOUNTING		1
9				
10				
11	064-661	CAPACITOR, CER. 24 pF, 50V, ±.5 pF	C13,14	2
12	064-685	CAPACITOR, CER, 200 pF, 50V, ±1%	C7	1
13	064-729	CAPACITOR, CER. 15 pF 50V, ±.5 pF	C8,9	2
14	064-754	CAPACITOR, CER, .01 uF, 50V, ±20%	C1-6,10-12,15-36	31
15	037-749	CAPACITOR, TANT, 68 uF, 15V, ±10%	C37	1
16	037-933	CAPACITOR, TANT, 10 uF, 35V, ±20%	C38	1
17				
18	017-286	CRYSTAL UNIT, 3.6864 MHz	Y2	1
19	017-299	CRYSTAL UNIT, 25.000 MHz	Y1	1
20	013-599	DIODE, SWITCHING, IN4148	CR1	1
21				
22	135-619	HEADER ASSEMBLY, 2 POSTS	J1-15	15
23	140-437	CONN, SIG CKT, PLUG, RECT, 2 SOCKETS		AR
24	540-028	INDUCTOR, FIXED, 8.2 uH, ±10%	L1	1
25				
26	581-857	L.E.D. ARRAY, 4 ELEMENT	DS1,2	2
27				
28	003-224	INTEGRATED CIRCUIT, 74ALS1035	U17	1
29	590-531	INTEGRATED CIRCUIT, 74LS240	U14,15	2
30	004-397	INTEGRATED CIRCUIT, 74AS373	U5,10,31	3
31	005-929	INTEGRATED CIRCUIT, 62256P-12	1 U18,21,29,30	4
32				
33	005-760	INTEGRATED CIRCUIT, 74AS245	U6,8	2
34	005-762	INTEGRATED CIRCUIT, 80C186-12	1 U7	1
35	005-763	INTEGRATED CIRCUIT, 2698PLCC	1 U13	1
36				
37	005-764	INTEGRATED CIRCUIT, 74ALS520	U39,40	2

LM-1431025

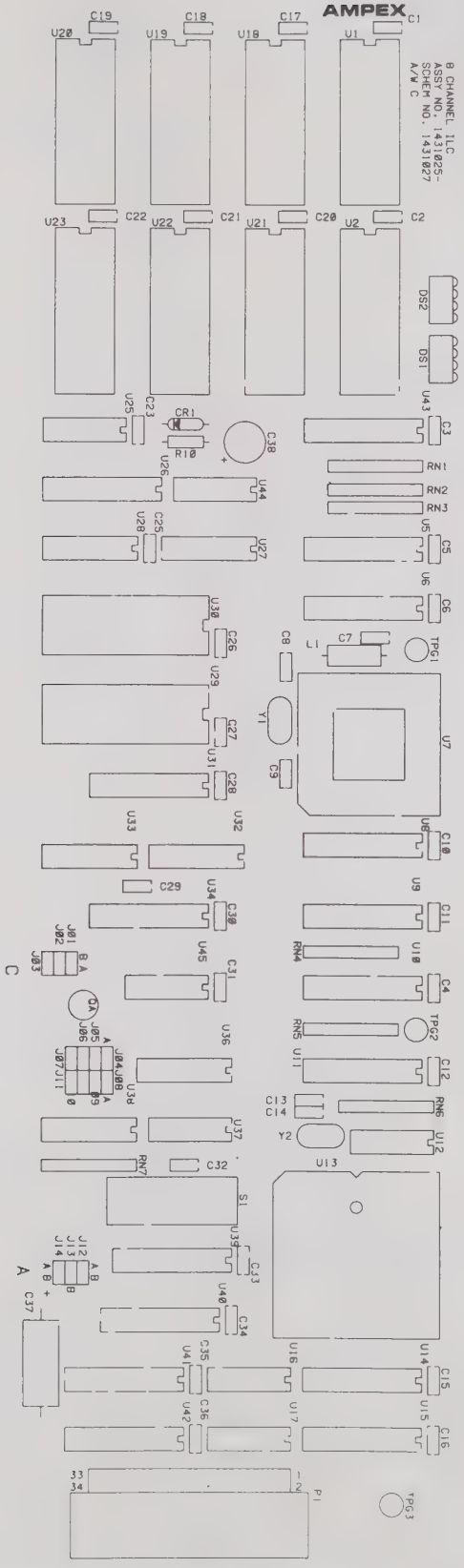
AMPEX | Ampex Corporation REDWOOD CITY CALIFORNIA	CODE IDENT NO 92739	LIST OF MATERIALS	LM-1431025 2 SHEET 2	REV D

ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER -01
38	003-117	INTEGRATED CIRCUIT, 74AS157	U27,28,32,33,36	5
39	589-457	INTEGRATED CIRCUIT, 74LS245	U9,26,34,42	4
40	589-821	INTEGRATED CIRCUIT, 74LS85	U38	1
41	590-328	INTEGRATED CIRCUIT, 74LS32	U25,37	2
42	590-335	INTEGRATED CIRCUIT, 74LS273	U41,43	2
43	590-495	INTEGRATED CIRCUIT, 74LS14	U44	1
44	590-607	INTEGRATED CIRCUIT, 7417	U17	-
45	590-673	INTEGRATED CIRCUIT, 74LS04	U12,16	2
46	590-940	INTEGRATED CIRCUIT, 74F74 ▷1	U45	1
47	039-264	NETWORK, RESISTOR, 4.7K OHMS, ±2%	RN1,6,7	3
48	039-378	NETWORK, RESISTOR, 47 OHMS, ±2%	RN2-5	4
49	066-849	RESISTOR, C.F., 100K OHMS. 1/4W, ±5%	R10	1
50				
51	119-733	SWITCH, DIP, ROCKER, SPST	S1	1
52				
53	173-620	TERMINAL, TURRET, SWAGE	TPG1-3	3
54				
55	C0752	SCREWS, METRIC	REF: ITEM #8	AR
56	C0754	WASHERS, METRIC	REF: ITEM #8	AR
57				
58	135-353	HEADER ASSY., RT ANGLE, 34 POSTS	P1	1
59				
60	582-512	I.C., MTG HDW, SOCKET, DIP, 28 PINS	REF: U1,2,18-23 29,30	10
61	582-602	I.C., MTG HDW, CHIP CARRIER, 68 PINS	REF: U7	1
62	582-600	I.C., MTG HDW, CHIP CARRIER, 84 PINS	REF: U13	1
63	582-601	I.C., MTG HDW, SOCKET, DIP, 20 PINS	REF: U11	1

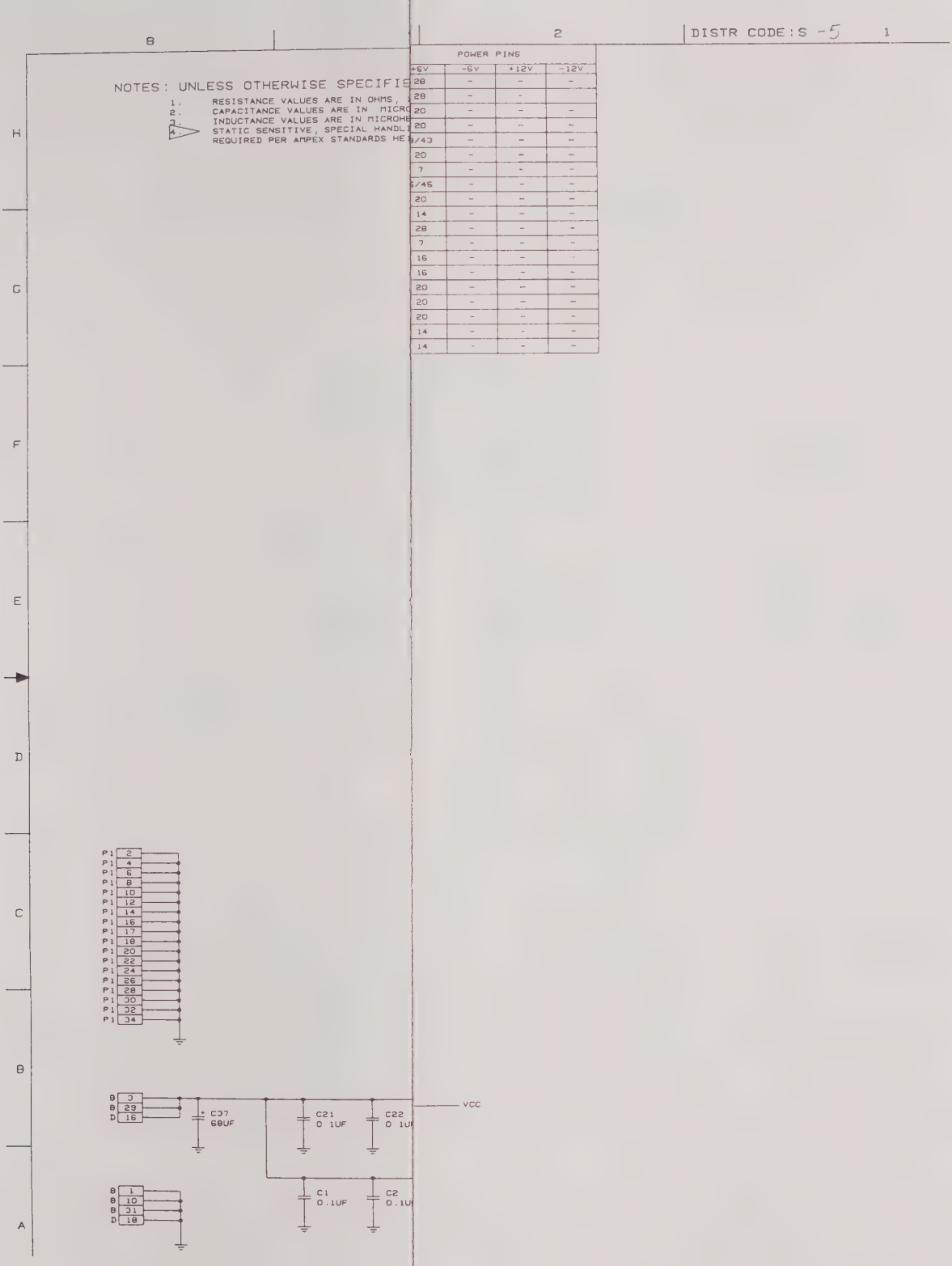
NOTES:

▷1 STATIC SENSITIVE, SPECIAL HANDLING REQUIRED PER AMPEX STD HE1-1.

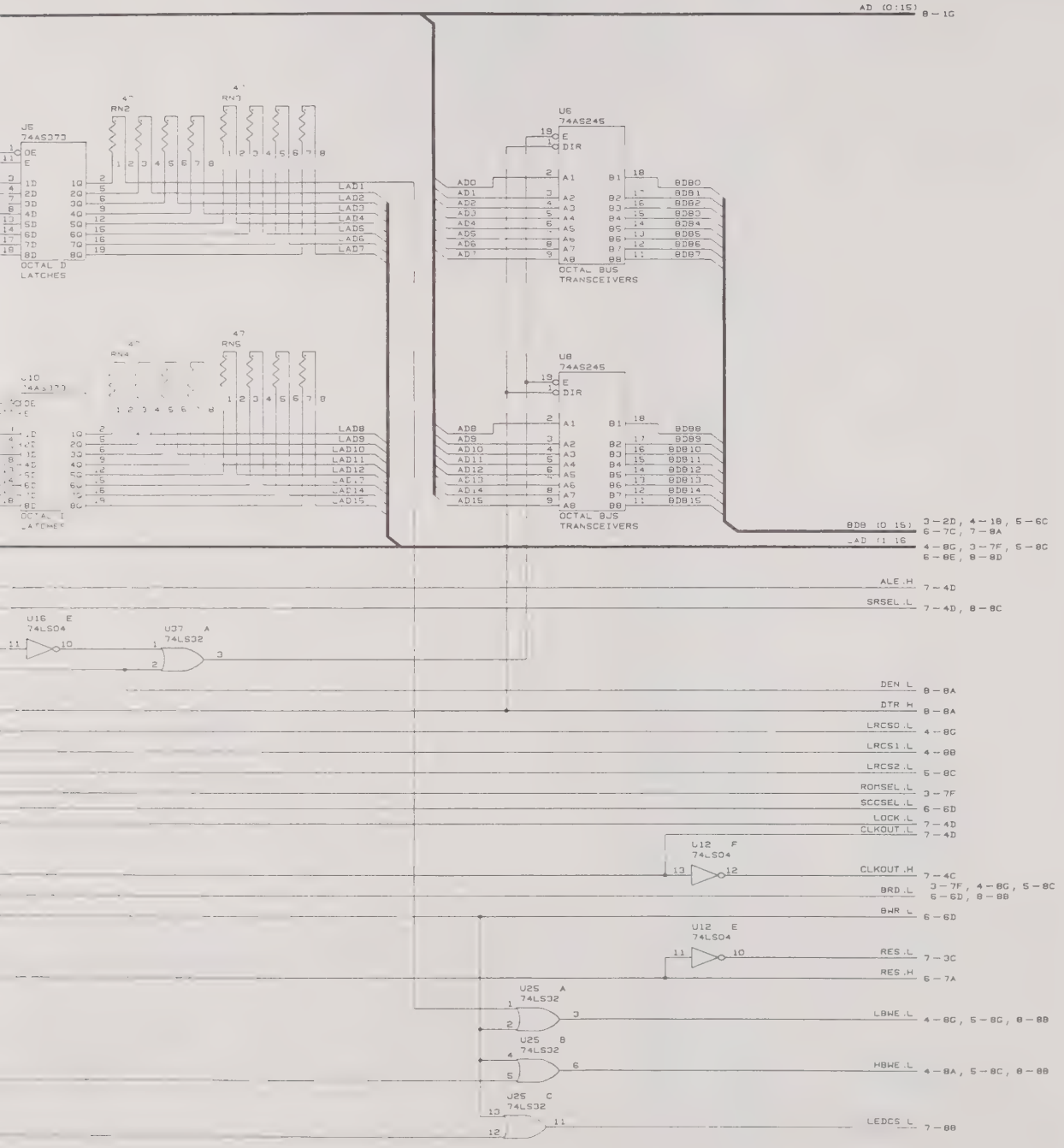
LM-1431025



Assembly No. 1431025-01D. 8 Channel ILC PWA



Schematic No. 1431027A.
8 Channel ILC PWA
(Sheet 1 of 8)



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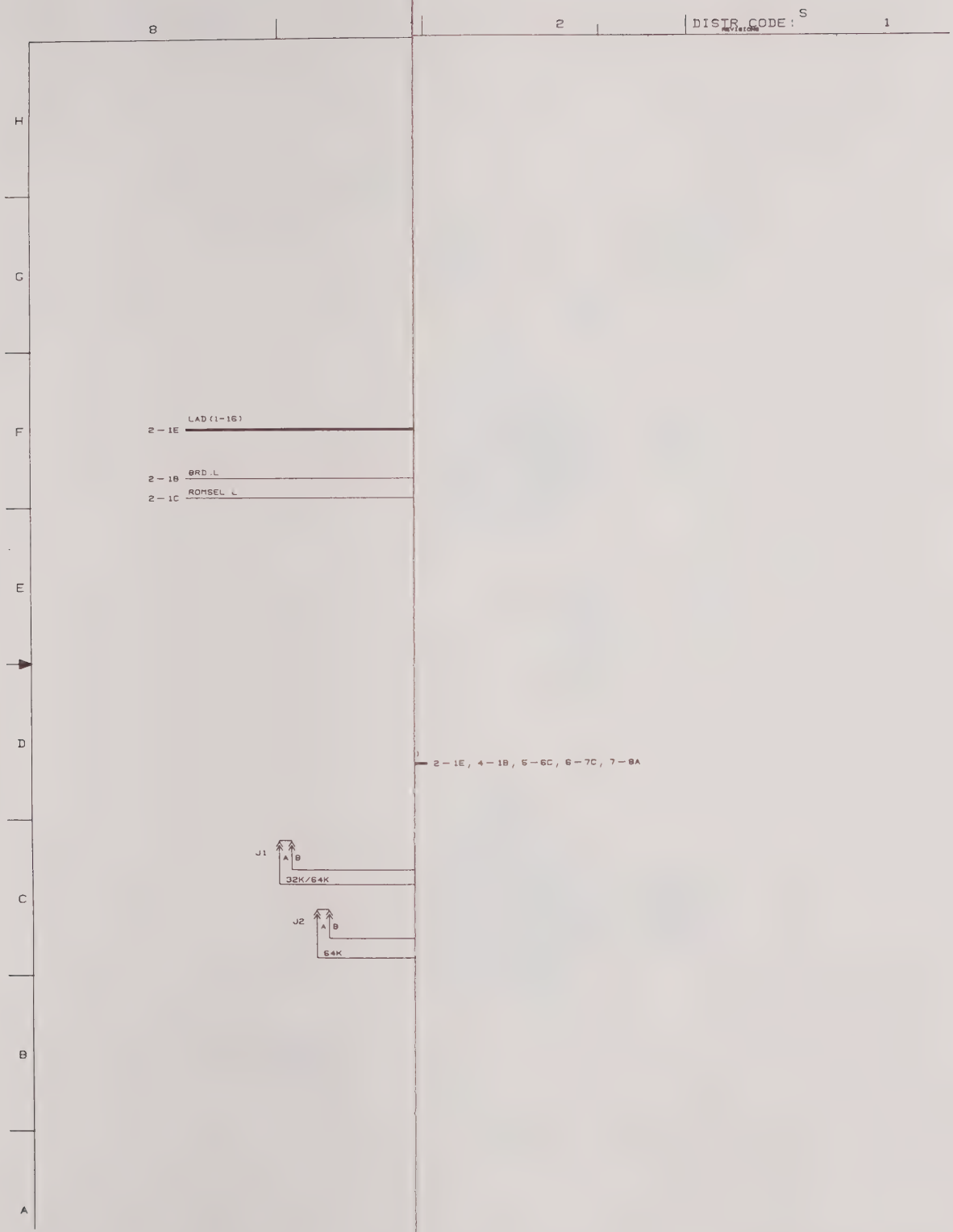
8 Channel ILC PWA
(Sheet 2 of 8)



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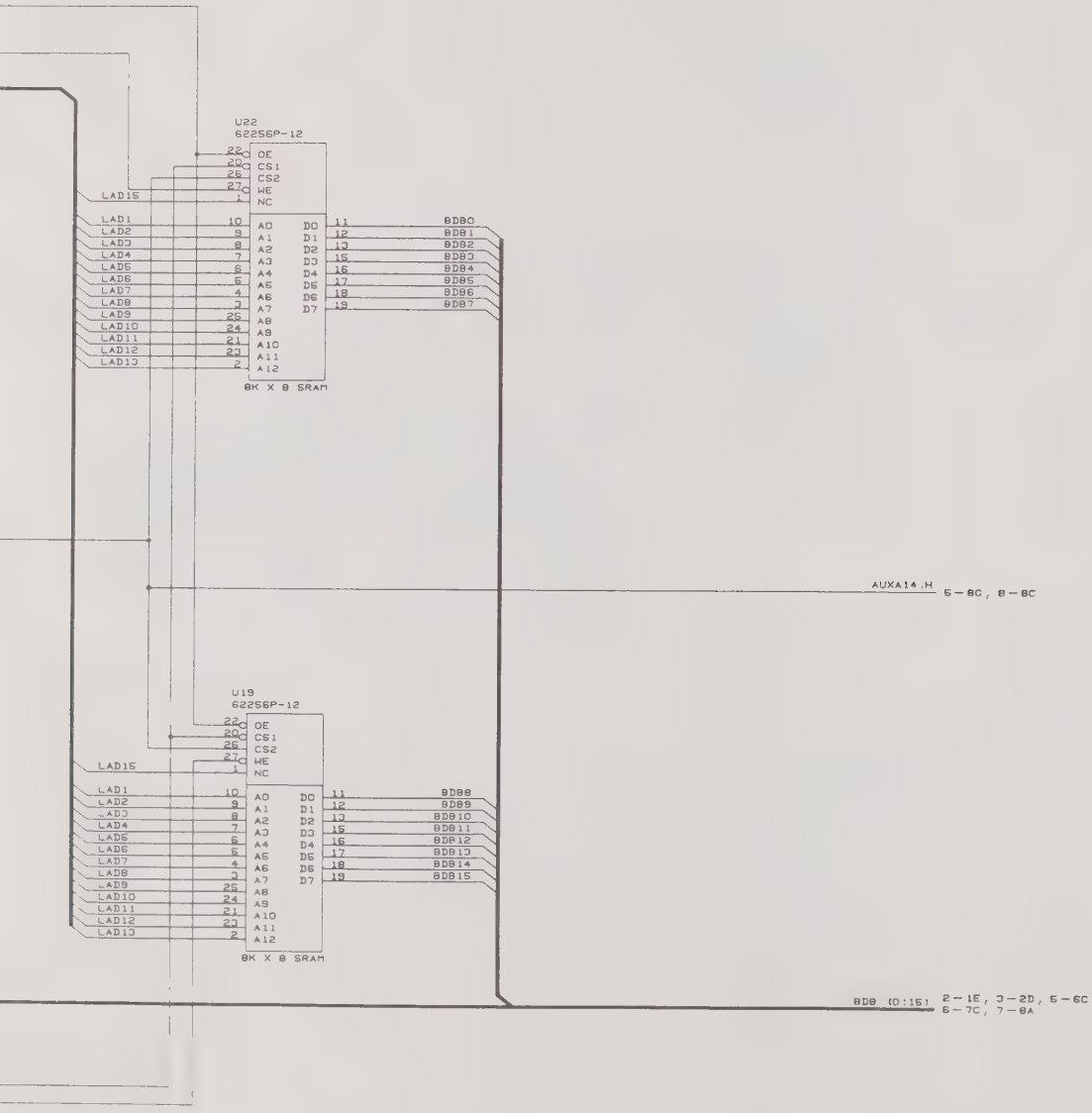
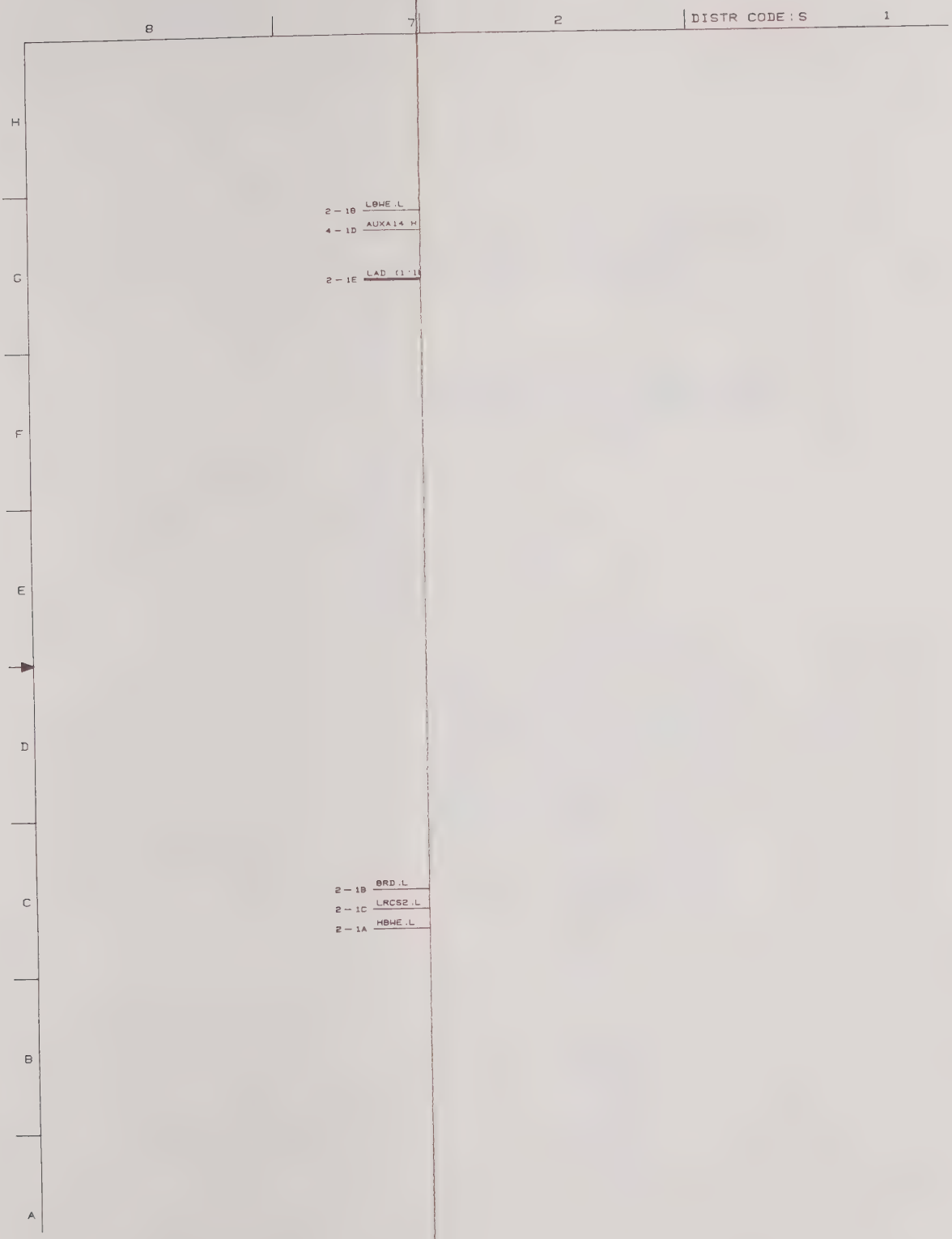
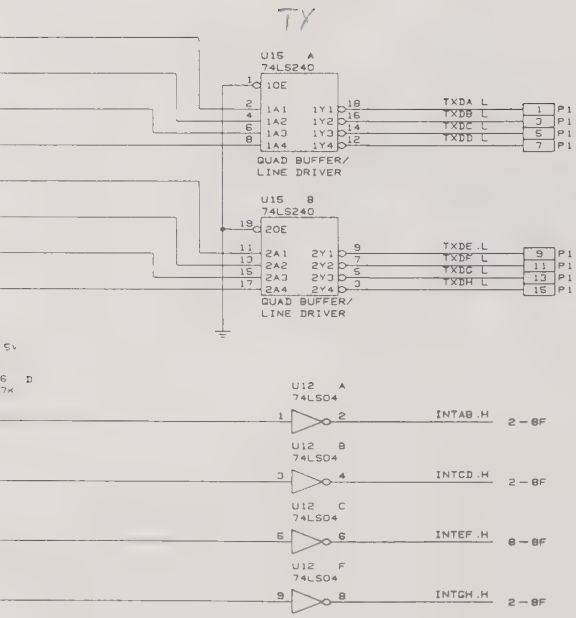
8 Channel ILC PWA
(Sheet 3 of 8)



Schematic No. 1431027A.
8 Channel ILC PWA
(Sheet 4 of 8)



Schematic No. 1431027A.
8 Channel ILC PWA
(Sheet 5 of 8)



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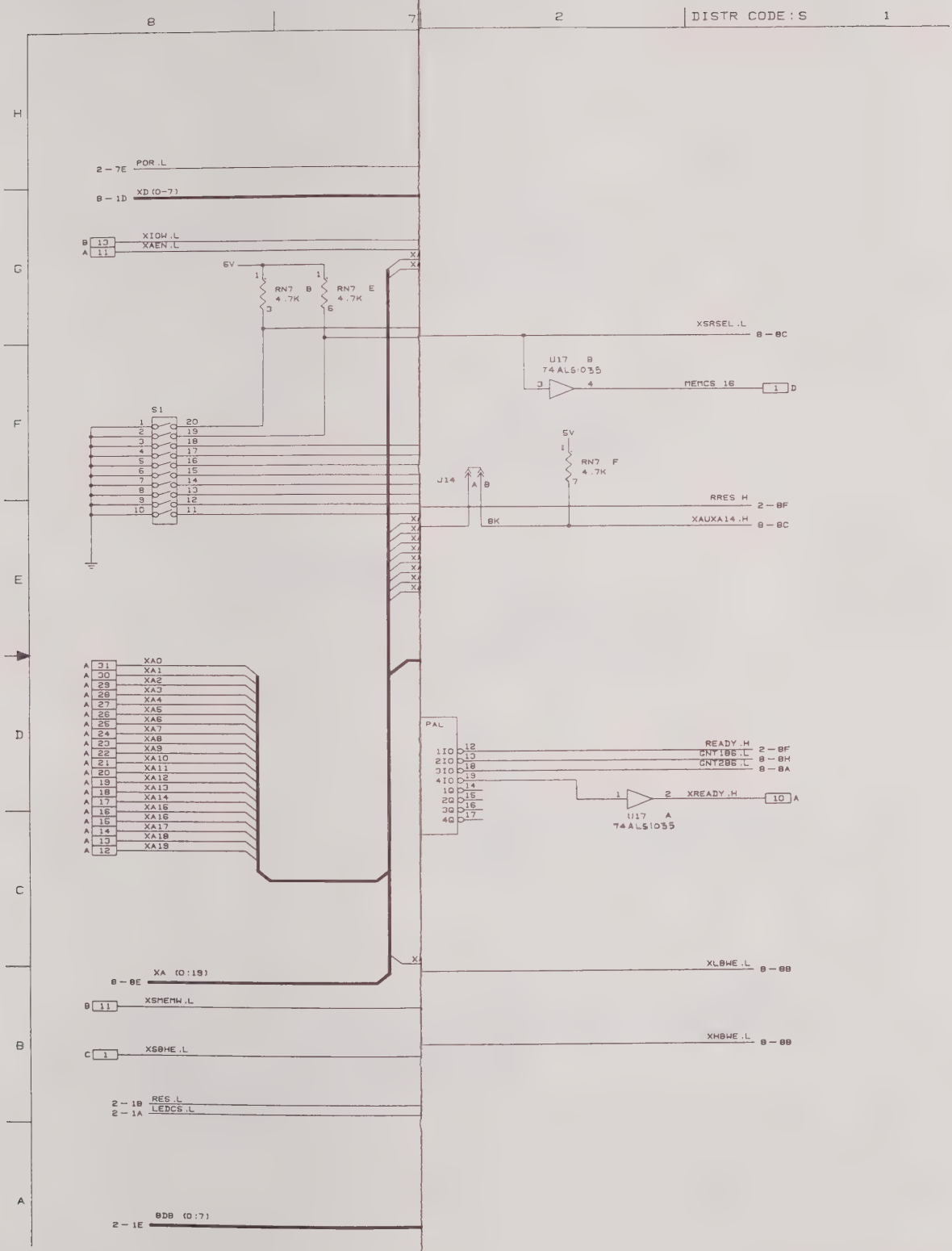
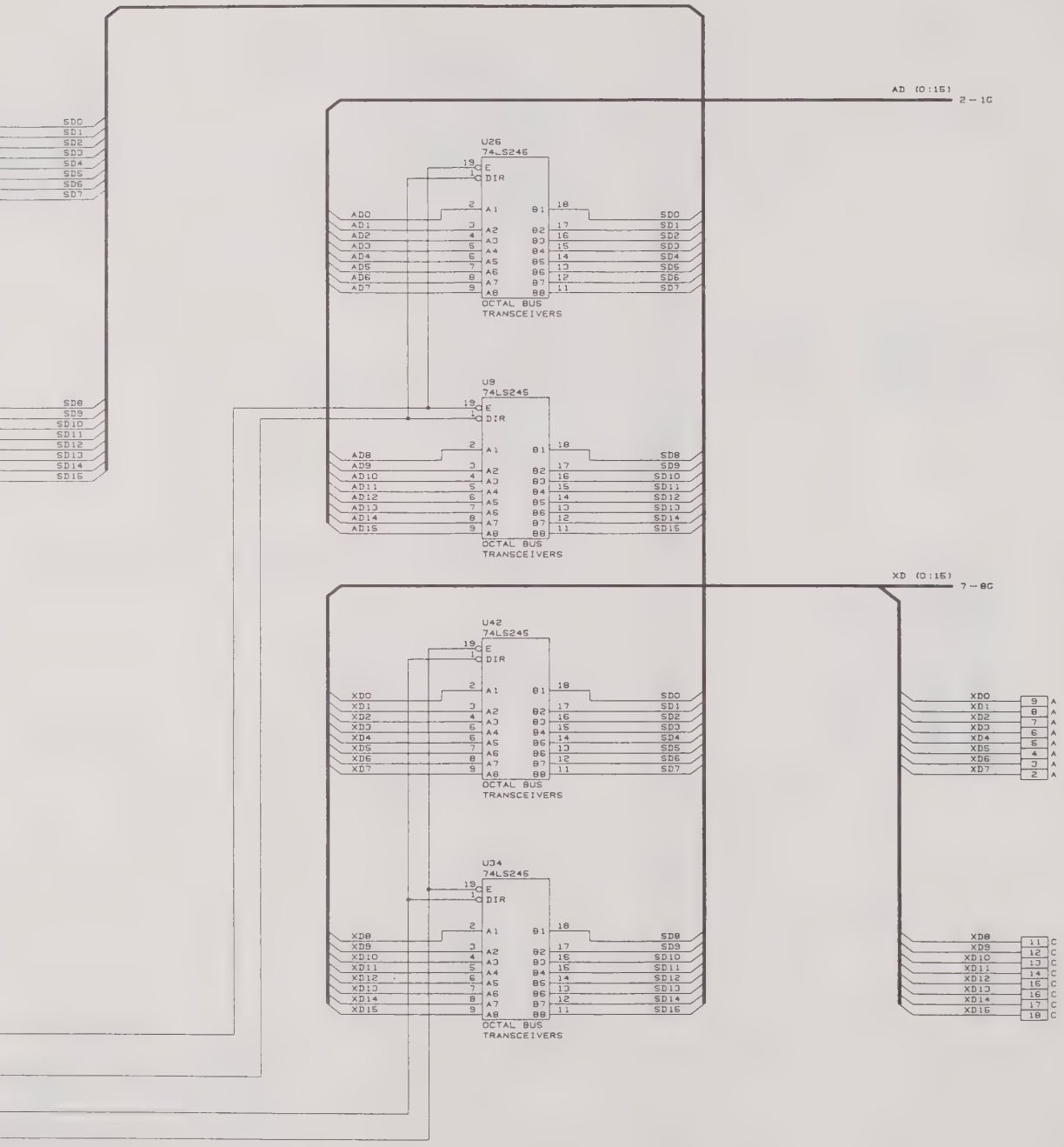
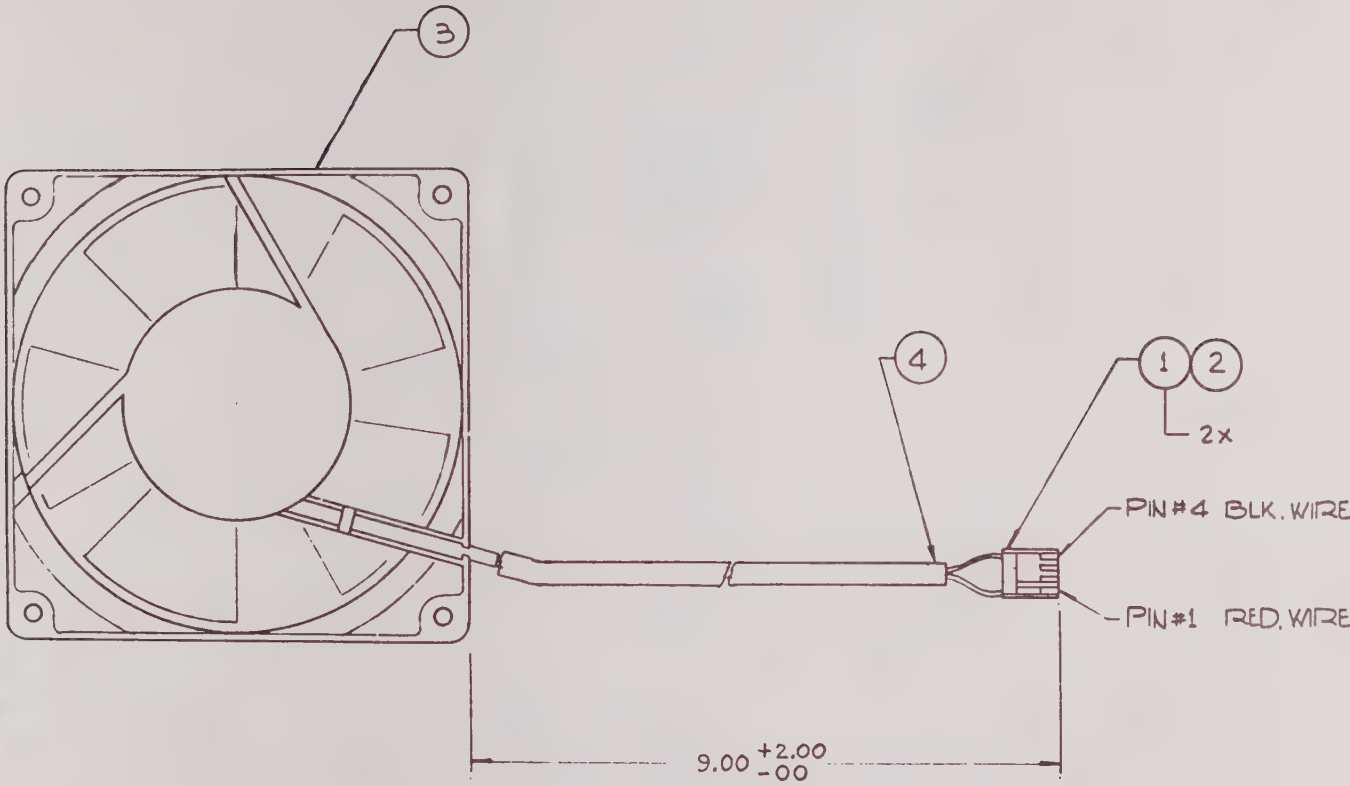
8 Channel ILC PWA
(Sheet 6 of 8)



Schematic No. 1431027A.
8 Channel ILC PWA
(Sheet 7 of 8)

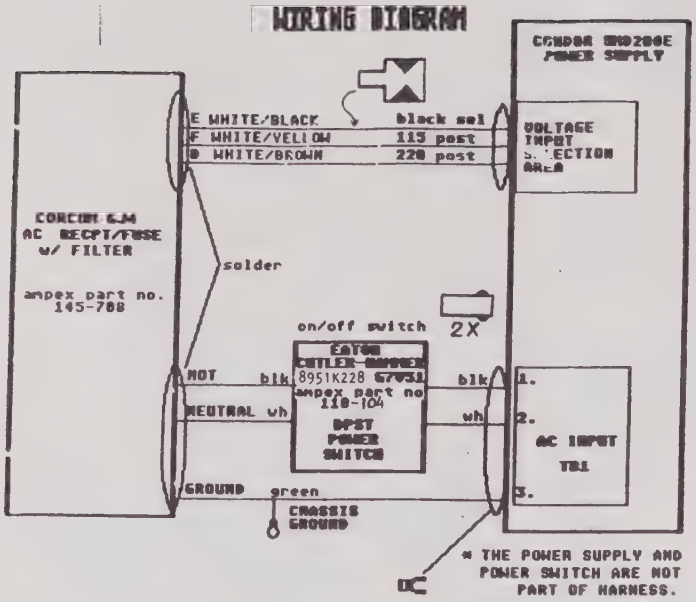


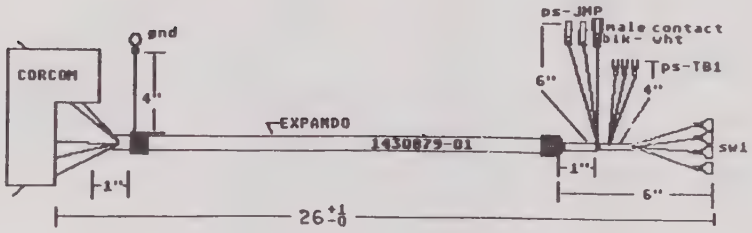
Schematic No. 1431027A.
8 Channel ILC PWA
(Sheet 8 of 8)



-01 ITEM NO.		PART NUMBER	DESCRIPTION
AR	4	CD 726	SLEEVING
1	3	591-344	12VOLT DC FAN MFG. SANYO
1	2	177-099	CONN. PART, RECEPT, RECT, 4POS
2	1	167-962	CONN. PART, CONTACT, SPRING, 24-20 AWG WIRE

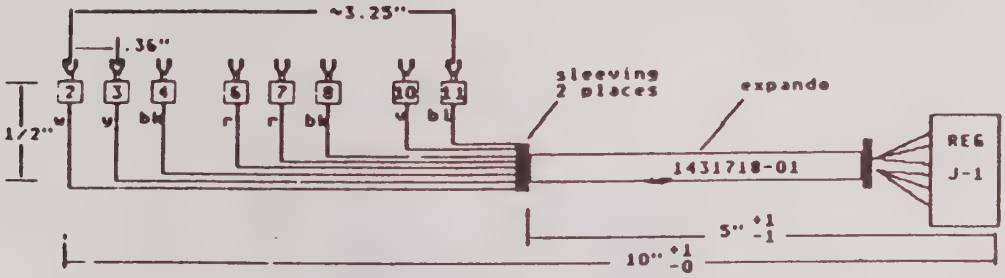
Assembly No. 1431721-01A. DC Fan





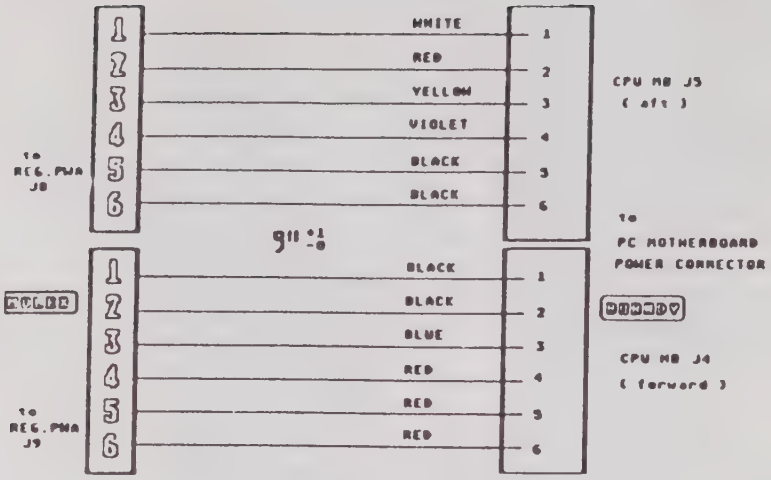
ITEM	PART NO.	DESCRIPTION	REF.	QUAN.
1	145-708	CORCOM 6J4 AC RECPT/FUSE w/ FILTER		1
2		WIRE white/BLK 18AWG , stranded		AR
3		WIRE white/YEL 18AWG , stranded		AR
4	CD 739	WIRE white/BRN 18AWG , stranded		AR
5		WIRE black 18 AWG , stranded		AR
6		WIRE white 18 AWG , stranded		AR
7		WIRE green 18 AWG , stranded		AR
8	171-117	CRIMP CONNECTOR spade	ps1 TB1	3
9	171-005	CRIMP CONNECTOR "O"	gnd	1
10	172-363	CRIMP CONNECTOR .25 SLIP-ON over lug	sw-1	4
11	187-028	CRIMP CONNECTOR .093 male MOLEX	ps1 ac	1
12	141-868	RECEPTACLE 1 circuit MOLEX REF: ITEM 11	ps1 ac	1
13	177-369	CRIMP CONNECTOR .093 female MOLEX	ps1 ac	2
14	141-867	PLUG 1 circuit MOLEX REF: ITEM 13	ps1 ac	2
15	CD 726	SLEEVING insulated heatshrink		A/R
16	302-335	TIEWRAP small		A/R
17	202-066	LABEL		A/R
18	600-623	EXPANDO		A/R

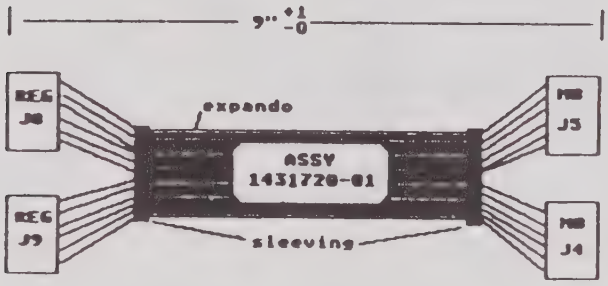
Assembly No. 1430879-01E. AC Harness



ITEM	PART NO.	DESCRIPTION	REF.	QUAN. -01
1	140-336	CONN HOUSING MOLEX .156 8 pos.	REG J1	1
2	167-340	CONTACTS MOLEX		8
3	171-004	TERMINAL U-spade CRIMP insul.		8
4	CO 739	WIRE 18 GA BLUE	TB3-11	AR
5		WIRE 18 GA VIOLET	TB2-10	AR
6		WIRE 18 GA BLACK	TB2-8	AR
7		WIRE 18 GA RED	TB2-6,7	AR
8		WIRE 22 GA WHITE	TB2-2	AR
9		WIRE 18 GA YELLOW	TB2-3	AR
10	CO-726	SLEEVING SHRINK		AR
11	600-624	EXPANDO		AR
12	202-066	LABEL		AR

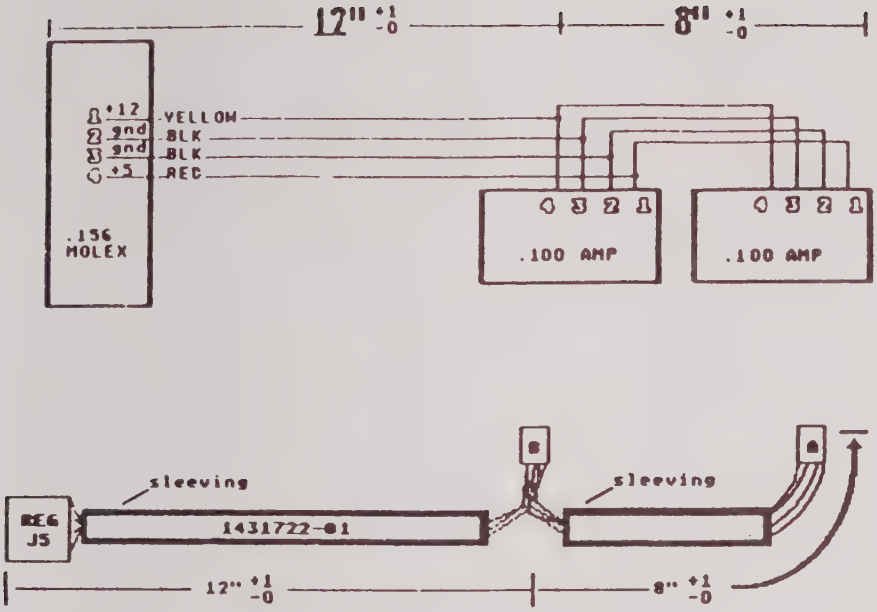
Assembly No. 1431718-01B. Power Supply/Regulator Harness





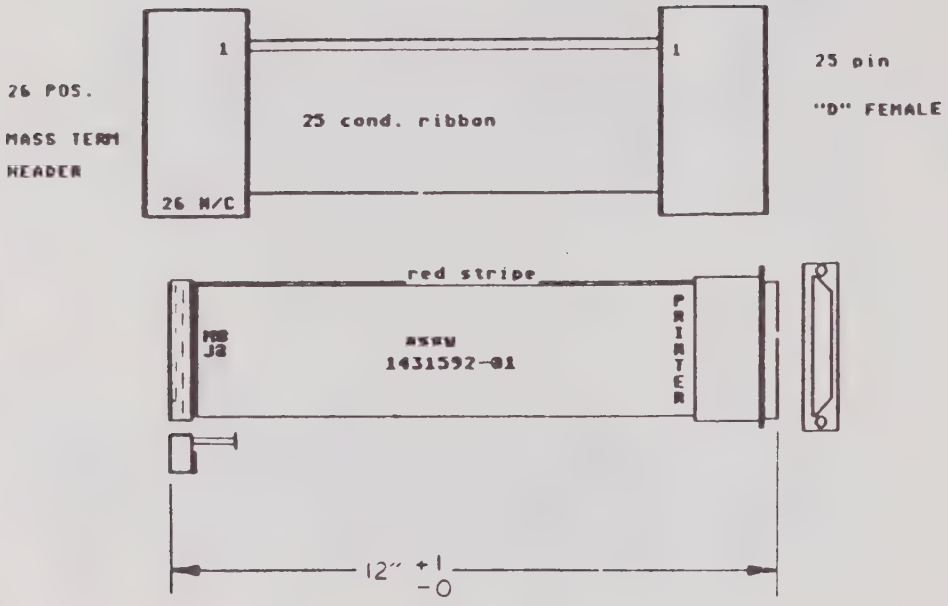
ITEM	PART NO.	DESCRIPTION	REF.	QUAN.
1	167-553	CONN HOUSING .156 MOLEX 6 pos.		2
2	167-540	CONTACT MOLEX		12
3	177-976	CONN HOUSING BURNDY GTC6P-1 6 pos.		2
4	177-977	CONTACT BURNDY PCK18-2TR9		12
5		WIRE 18 GA BLUE		AR
6		WIRE 18 GA VIOLET		AR
7		WIRE 18 GA BLACK		AR
8		WIRE 18 GA RED		AR
9		WIRE 18 GA YELLOW		AR
10		WIRE 22 GA WHITE		AR
11	600-624	EXPANDO		AR
12	CD-726	SLEEVING shrink		AR
13	202-066	LABEL		AR

Assembly No. 1431720-01B. Regulator/PC Motherboard Power Cable



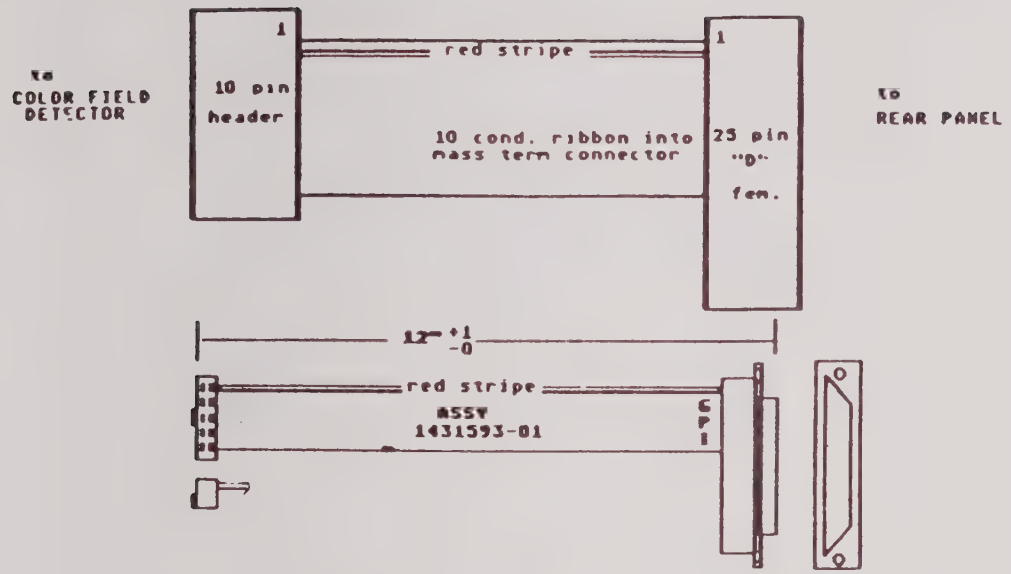
ITEM	PART NO.	DESCRIPTION	REF.	QUAN.
1	177-321	CONN HOUSING AMP#171822-4	A, B	2
2	177-322	CONN CONTACT AMP#170262-1		8
3	167-370	CONN HOUSING MOLEX#09-50-3041	P6 & J5	1
4	167-340	CONN CONTACT MOLEX#08-56-0105		4
5	6, 10	WIRE red 24 AWG, stranded		AR
6	7, 3	WIRE yellow 24 AWG, stranded		AR
7	9	WIRE black 24 AWG, stranded		AR
8	CD-726	SLEEVING shrink		AR

Assembly No. 1431722-01B. Disk Drive Power Harness



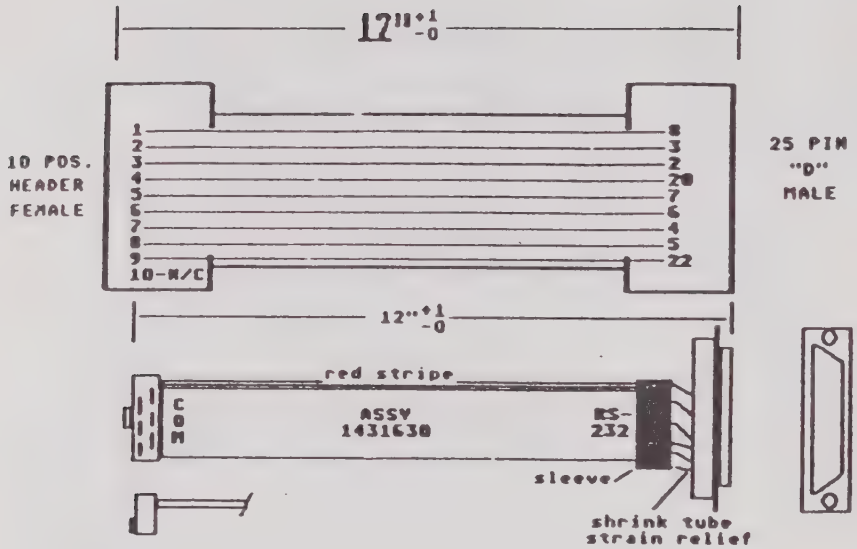
ITEM	PART NO.	DESCRIPTION	REF.	QUAN. -01
1	636-321	RIBBON CABLE 25 cond.		AR
2	141-456	CONN 25 pos. "D" FEMALE	PRINTER	1
3	140-704	CONN 26 pos. HEADER MASS TERM.	P1 & J1	1
4	202-065	LABEL		AR

Assembly No. 1431592-01C. Printer Cable



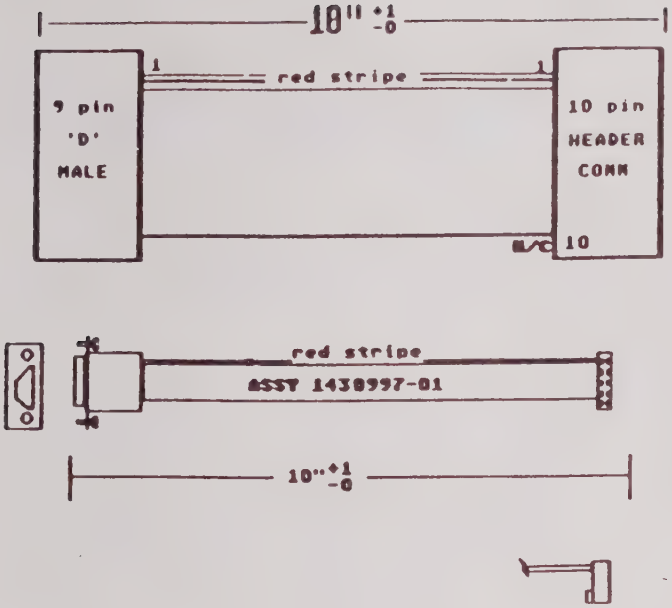
ITEM	PART NO.	DESCRIPTION	REF.	QUAN. -01
1	141-862	CONN HOUSING 10 pos. mass term.		1
2	616-653	RIBBON CABLE 10 COND.		AR
3	141-456	CONNECTOR 25 pos. 'D' female mass term.	GPI	1
4	202-066	LABEL		AR

Assembly No. 1431593-01C. GPI Cable



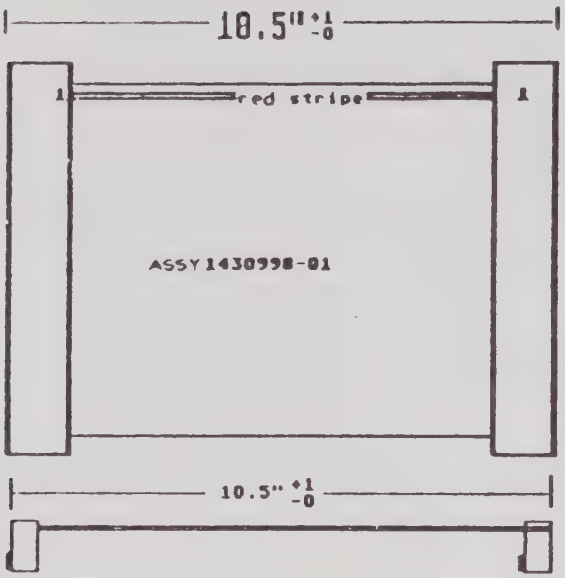
ITEM	PART NO.	DESCRIPTION	REF.	QUAN. -01
1	141-862	CONN HOUSING 10 pos. MASS TERM.	com	1
2	616-653	CABLE 10 COND. RIBBON		AR
3	145-219	CONN 'D' 25 pos. male solder	RS 232	1
4	CD-726	SLEEVING shrink		AR
5	202-066	LABEL		AR

Assembly No. 1431630-01C. RS232 Cable



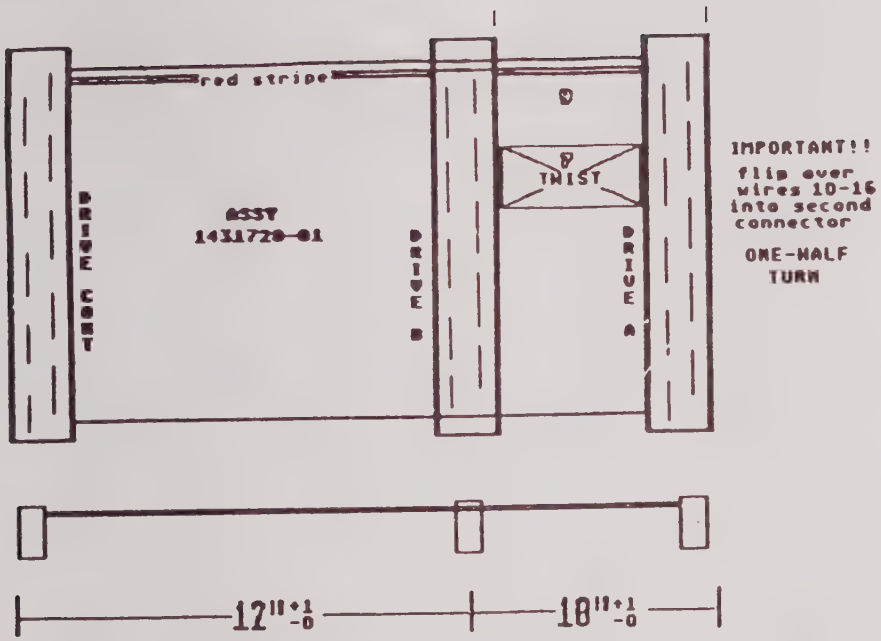
ITEM	PART NO.	DESCRIPTION	REF.	QUAN.
1	141-878	CONN 9 pin 'D' MALE		1
2	636-312	CABLE RIBBON 9 COND.		AR
3	167-169	CAPTIVE SCREW KIT (4-40)		1
4	141-862	CONN HOUSING 10 pos. MASS TERM		1
5	202-066	LABEL		AR

Assembly No. 1430997-01A. Computer Monitor Cable



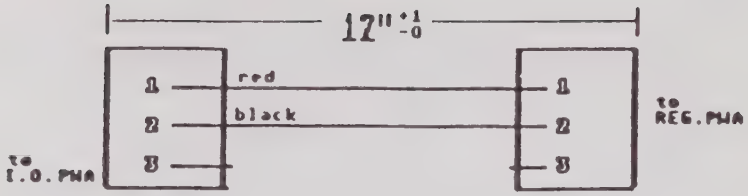
ITEM	PART NO.	DESCRIPTION	REF.	QUAN. -01
1	616-724	RIBBON CABLE 34 cond.		AR
2	141-916	CONNECTOR 34 pos.		2
3	202-065	LABEL		AR

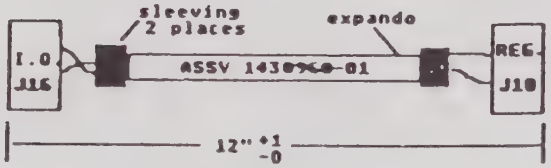
Assembly No. 1430998-01A. Serial Communications Cable



ITEM	PART NO.	DESCRIPTION	REF.	QUAN. -01
1	616-724	RIBBON CABLE 34 cond.		24"
2	141-172	CONNECTOR 34 pos.		3
3	202-063	LABEL		AR

Assembly No. 1431728-01C. Disk Drive Cable



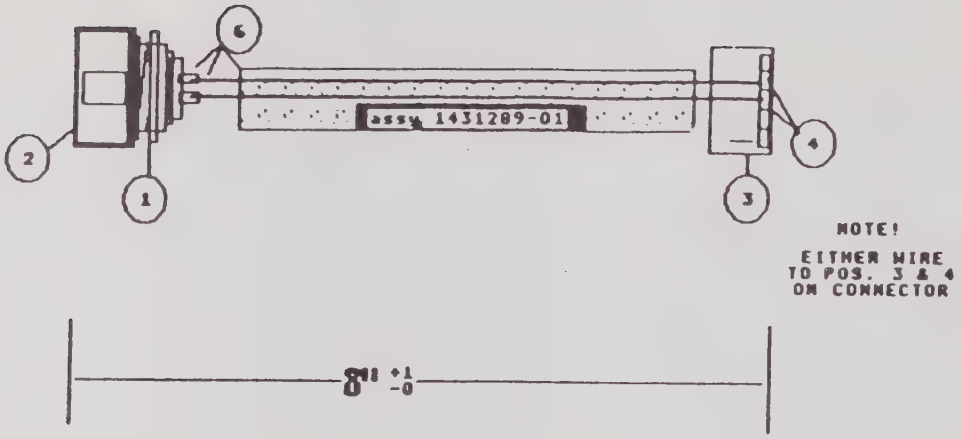


ITEM	PART NO.	DESCRIPTION	REF.	QUAN. -01
1	167-539	CONN HOUSING .156 MOLEX 3 pos.		2
2	167-540	CONTACT MOLEX		4
3	CD-739	WIRE 18 AWG BLK		AR
4		WIRE 18 AWG RED		AR
5	CD-726	SLEEVING shrink		AR
6	600-624	EXPANDO		AR
7	202-066	LABEL		AR

Assembly No. 1430960-01A. Input/Output Regulator Cable

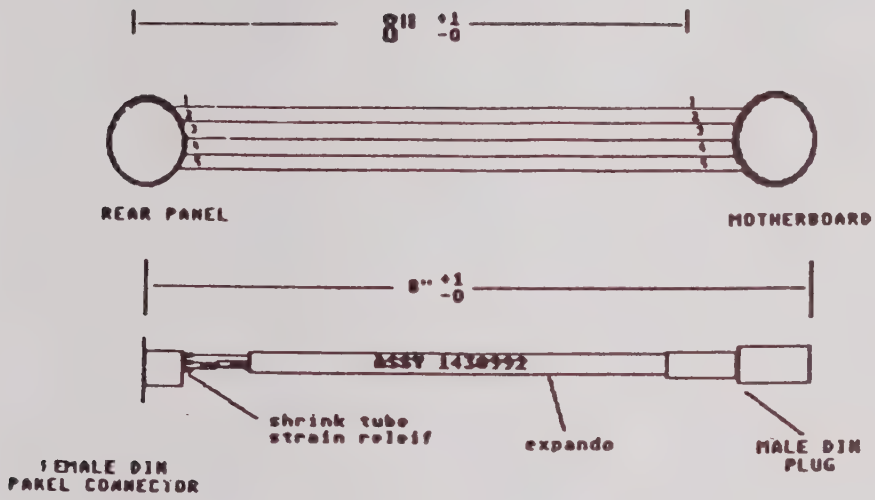
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER -01
1	1430464-01	SUPPORT, FILTER		1
2	1430465-01	SCREEN, FILTER		1
3	1430466-01	FOAM, FILTER		1
4	1431300-AA	LID SUPPORT ASSEMBLY		1
5	1431300-AB	LID SUPPORT ASSEMBLY		1
6	1431713-01	DOOR, CHASSIS		-
7	1431716-01	HINGE, DOOR		1
8	1431029-01	DOOR, MOLDED		1
9				
10	CD752	SCREW, METRIC, M3 X 6 mm LG		AR
11	CD754	WASHER, METRIC, CONICAL, M3		AR

LM-1430636



ITEM	PART NO.	DESCRIPTION	REF.	QUAN.
1	118-112	SWITCH nom. SPST	RESET	1
2	121-424	MOUNTING GUARD		1
3	167-853	CONNECTOR HOUSING 3 pos.	MP J1C	1
4	167-129	CONTACT for conn.		2
5	CD-739	WIRE AWG 24 gauge		AR
6	CD-726	SLEEVING shrink		AR
7				
8	202-066	LABEL		AR

Assembly No. 1431289-01A. Reset Switch Cable



ITEM	PART NO.	DESCRIPTION	REF.	QUAN. -01
1	145-659	PANEL CONNECTOR 5 pos. DIN 180°		1
2	141-930	PLUG CONNECTOR 5 pos. MALE DIN 180°		1
3	CD-739	WIRE 22 GA. AWG		AR
4	CD-726	SLEEVING shrink		AR
5	600-623	EXPANDO		AR
6	202-066	LABEL		AR

Assembly No. 1430992-01B. Diagnostic Port Cable

ITEM NO.	PART NUMBER		DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER -01
1	1430955-01		PWA, DUMPSTER BUS INTERFACE		1
2	1431009-01		OVERLAY, COMPONENT I/O PNL		1
3	1445913-01		PWA, SWITCHER EXTENDER		1
4	1431709-01		SWITCHER, I/O PANEL		1
5	1431719-01		HARNESS, REGULATOR-BACKPLANE		1
6	1431726-01		HARNESS, DUMPSTER-BACKPLANE		1
7	1445916-01		PWA, SWITCHER BACKPLANE		1
8	1431733		WIRING DIAGRAM		REF
9	474-500		SCREW, MACH, PAN HD, 4-40 X .312 LG		36

LM-1208.7

ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER -01
1				
2				
3	1430958	SCHEMATIC		(A)
4	1430883-01	BRACKET, DAUGHTER BOARD MOUNTING		1
5				
6	064-653	CAPACITOR, CER., 0.1uF, 50V, ±20%	C1-28,30,31	30
7	064-754	CAPACITOR, CER., .01uF, 50V, ±5%	C33	1
8				
9	037-749	CAPACITOR, TANT., 68uF, 15V, ±10%	C29,32	2
10				
11	135-994	HEADER ASSY, 5 POSTS	J3	1
12	135-108	HEADER ASSY, 16 POSTS, RT ANGLE	J4	1
13	135-991	HEADER ASSY, 50 POSTS, RT ANGLE	J2	1
14	140-437	CONN, SIGNAL, CKT, PLUG	J5,6	2
15				
16	595-001	CRYSTAL, CKT OSC, 4.000 MHZ	Y1	1
17				
18	051-770	FERRITE-CHOKE	L1,2	2
19				
20	003-489	INTEGRATED CIRCUIT, 74HCT04 (1)	U12,16	2
21	003-822	74HCT74	U5,18	2
22	003-017	74HC393	U6	1
23				
24	003-817	74HCT08	U11	1
25	004-636	74HCT32	U21	1
26	005-187	74HCT175	U1	1
27				
28	003-149	74HC193	U2,8	2
29	004-370	74HCT373	U4,13,15,20	4
30	003-238	74HCT244	U24,25	2
31	003-816	74HCT245	U23,26	2
32				
33	590-957	INTEGRATED CIRCUIT, 6116AE3 (1)	U3,9	2
34	1430947-01	PROM ASSEMBLY, ADDRESS DECODER #1, 20L10A (005-837) (1)	U17	1
35	1430948-01	PROM ASSEMBLY, ADDRESS DECODER #2, 20L10A (005-837) (1)	U19	1
36	1430949-01	PROM ASSEMBLY, ADDRESS DECODER #3, 20L10A (005-837) (1)	U22	1
37	1430959-01	PROM ASSEMBLY, DUMPSTER STATE MACHINE, 28L22 (590-953)	U7	1

ILM-1430956

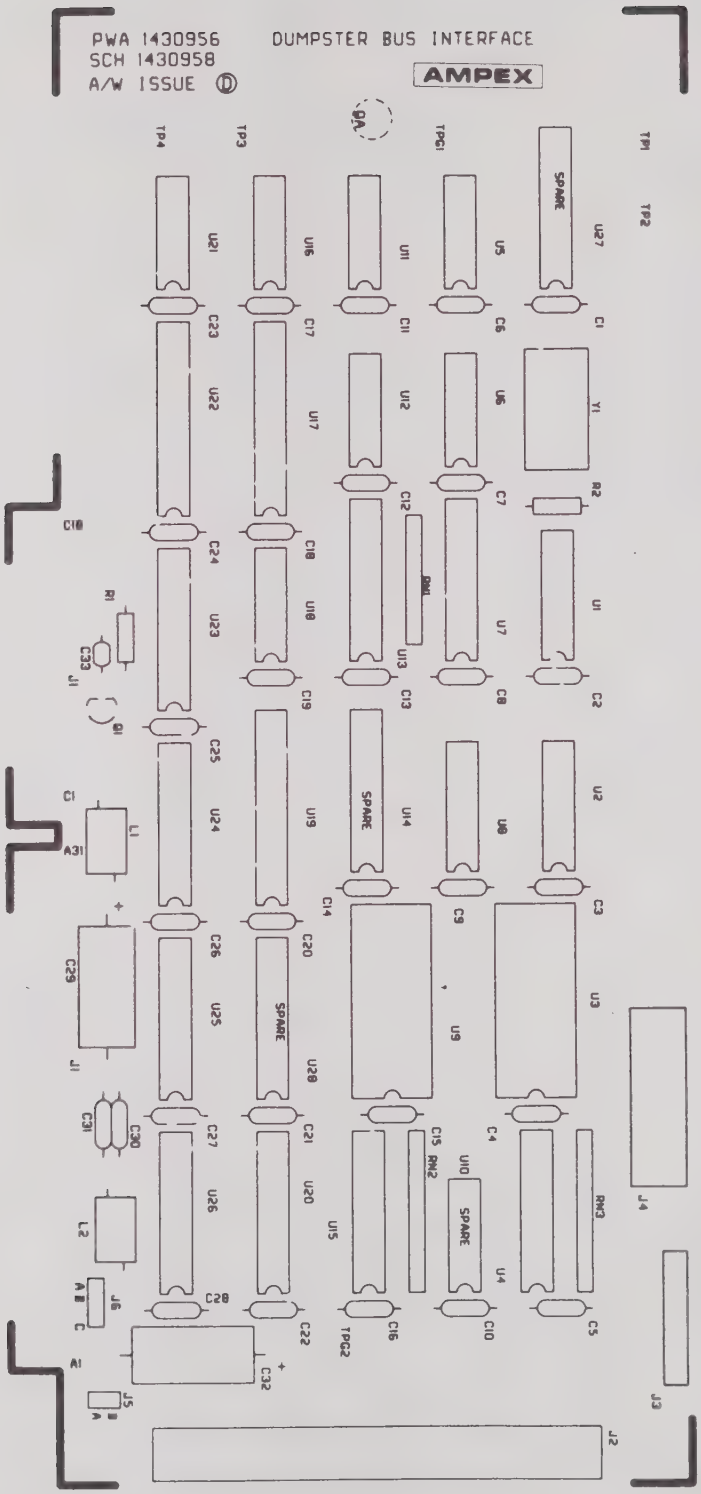
AMPEX | Ampex Corporation Redwood City, California	CODE IDENT NO 92739	LIST OF MATERIALS	LM-1430956 SHEET 2 OF 2	REV G

ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER -01
38				
39	039-293	NETWORK, RESISTOR, 10K OHMS, ±10%, 8 PIN SIP	RN1	1
40	039-323	NETWORK, RESISTOR, 10K OHMS, ±10%, 10 PIN SIP	RN2,3	2
41				
42	066-668	RESISTOR, C.F., 4.7K OHMS, 1/4W, ±5%	R1	1
43	066-830	RESISTOR, C.F., 10K OHMS, 1/4W, ±5%	R2	1
44	187-055	TERMINAL, WIREWRAP	J5-A,B,J6-A,B,C	5
45				
46	580-647	TRANSISTOR, NPN, 2N3904	Q1	1
47				
48	177-279	ADAPTER, DIP PLUG, 20 PINS	J7	-
49	582-139	I.C. MTG HDW, SOCKET, DIP, 20 PINS	REF:U7	1
50	582-280	I.C. MTG HDW, SOCKET, DIP, 24 PINS	REF:U17,19,22	3
51	615-095	WIRE, SOLID, INSULATED, 30 AWG, BLU		-
52	173-620	TERMINAL, TURRET	TP1,2	2
53	187-259	TERMINAL, PC	TP1-4	4
54				
55	CD752	SCREWS, METRIC	REF:ITEM #4	AR
56	CD754	WASHERS, METRIC	REF:ITEM #4	AR

NOTES:

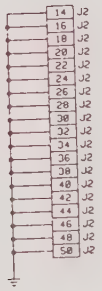
1. STATIC SENSITIVE, SPECIAL HANDLING REQUIRED PER AMPEX STD HE1-1.

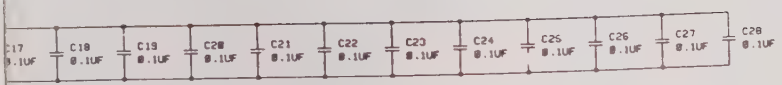
LM-1430956

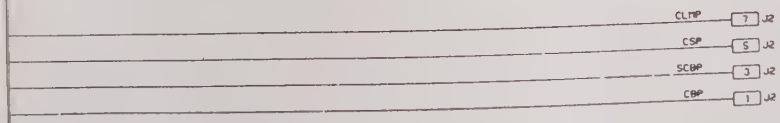


Assembly No. 1430956-01G. Dumpster Bus Interface PWA

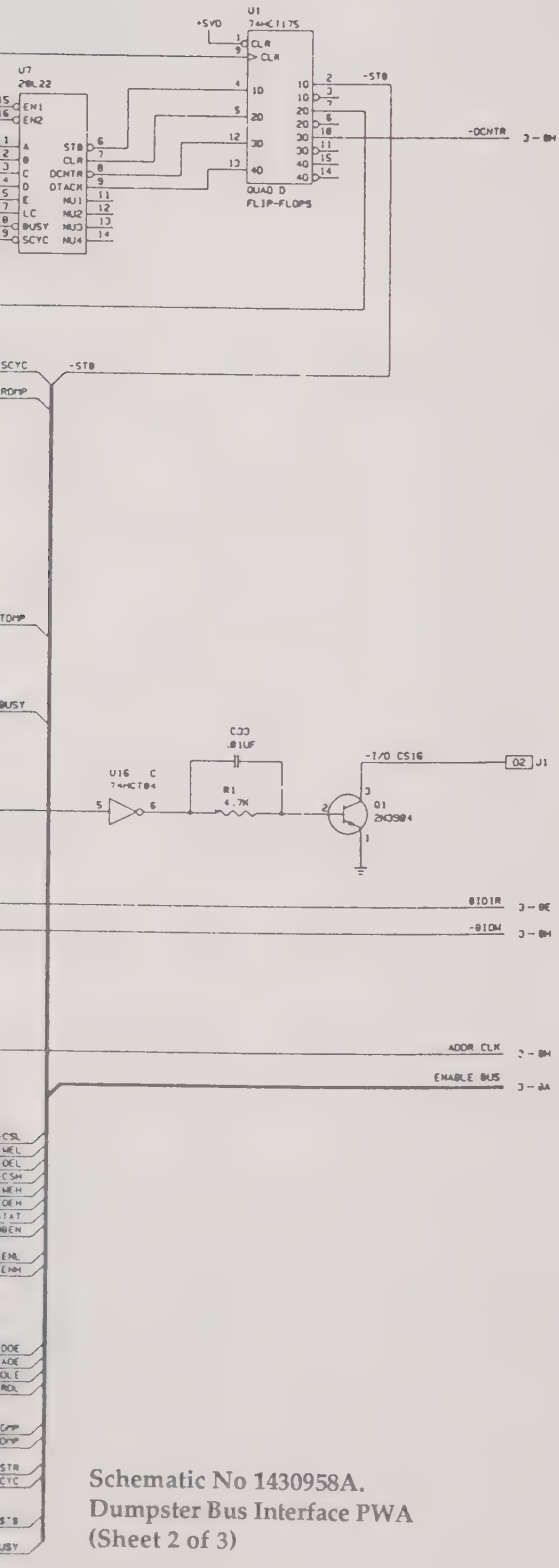
REFERENCE DESIGNATION	AMPEX P/N	VENDOR P/N	GND PIN	POWER PINS			
				+5VD	-5V	+12V	-12V
2,U8 4	883-149	74HC193	8	16	-	-	-
-	-	-	-	-	-	-	-
23,U26 4	883-816	74HCT245	10	20	-	-	-
21 4	884-636	74HCT32	7	14	-	-	-
4,U13,U15,U20 4	884-378	74HCT273	10	20	-	-	-
-	-	-	-	-	-	-	-
6 4	883-817	74HC393	7	14	-	-	-
5,U18 4	883-822	74HCT74	7	14	-	-	-
24,U25 4	883-238	74HCT244	10	20	-	-	-



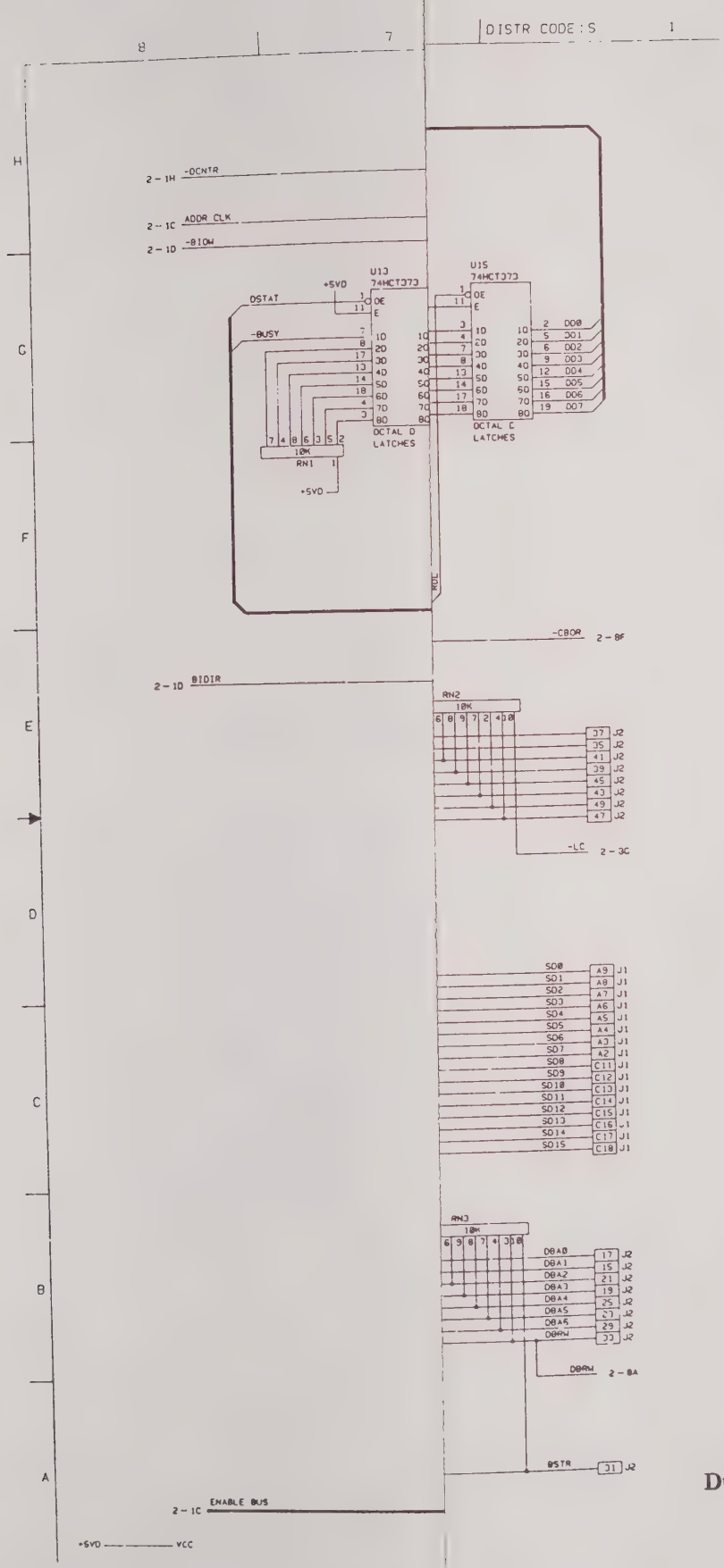




Schematic No. 1430958A.
Dumpster Bus Interface PWA
(Sheet 1 of 3)

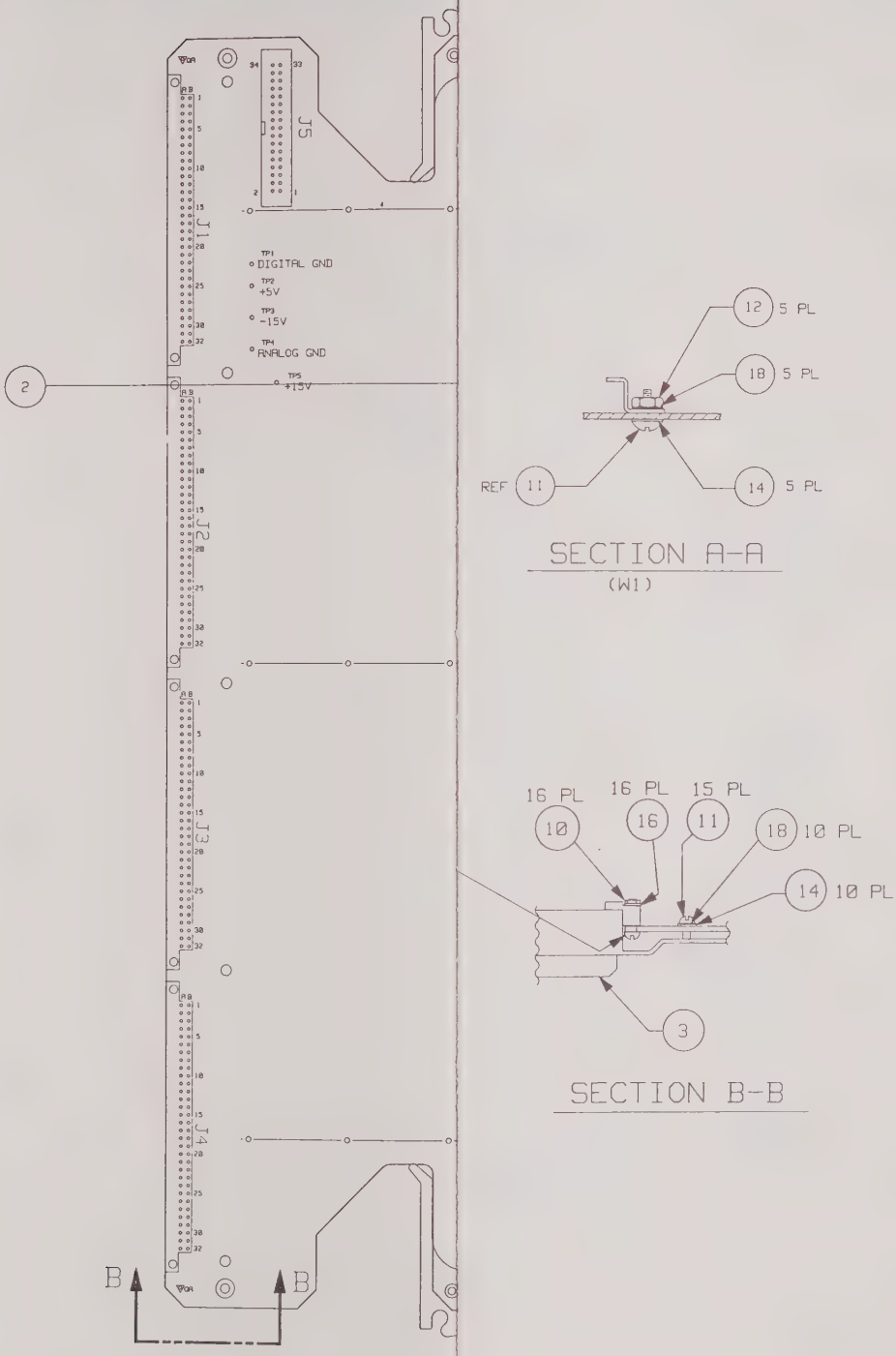


Schematic No 1430958A.
Dumpster Bus Interface PWA
(Sheet 2 of 3)

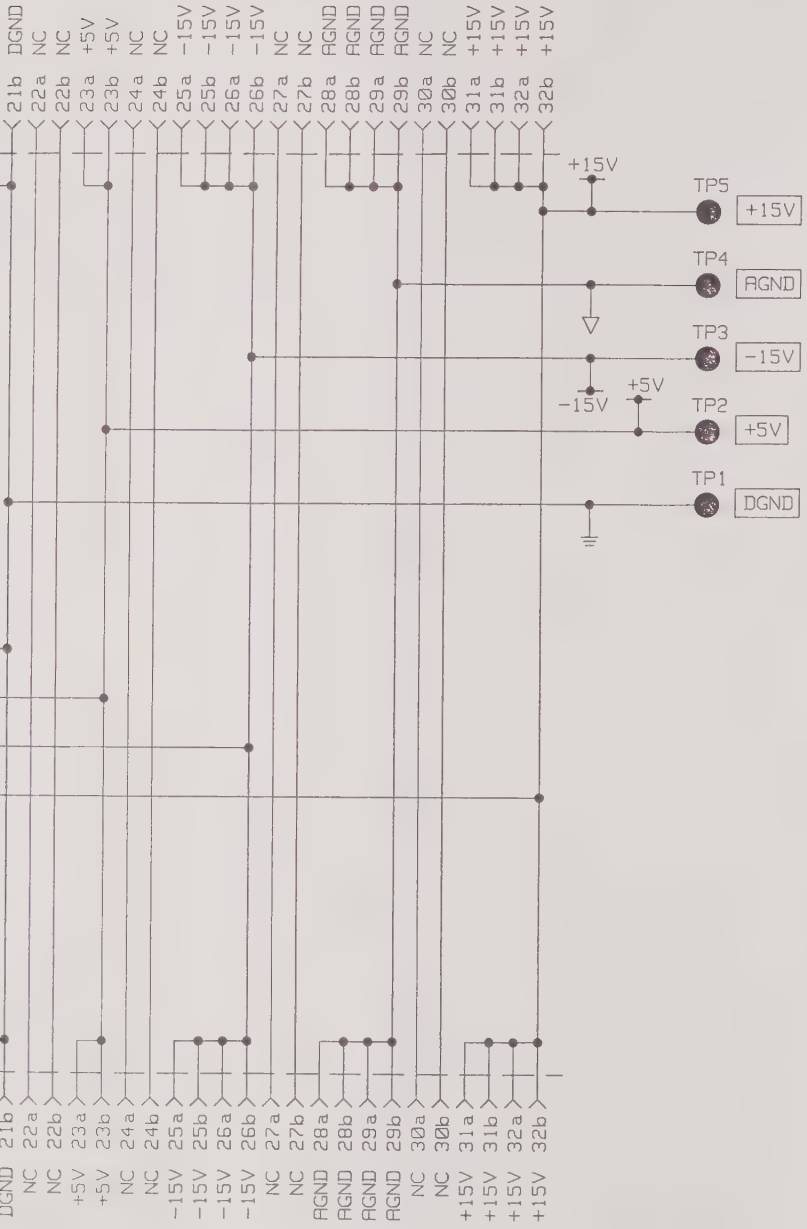


Schematic No. 1430958A.
Dumpster Bus Interface PWA
(Sheet 3 of 3)

ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REF DESIG	QTY
	*	indicates a NOTE see last page of List Of Materials			
1					
2	1445921-01	SCHEMATIC			REF
3	1443757-01	EXTENDER SUPPORT, QUANTUM			1
4	1445398-01	BUS BAR		W2-6	5
5	1445943-01	CARD STIFFENER, QUANTUM		W1	1
6	141-129	CONNECTOR, 64 PIN MALE, ANGLED		J6-9	4
7	141-146	CONNECTOR, 64 PIN FEMALE, ANGLED		J1-4	4
8	135-451	CONNECTOR, HEADER, 34 POS.		J5	A/R
9	204-759	SCREW, PPH, M2.5 X 12MM LG		J1-4,6-9	16
10	204-757	NUT, HEX, M2.5 X .04		J1-4,6-9	16
11	207-097	SCREW, PPH, M3 X 6MM LG	REF:ITEM 3,W1		15
12	204-171	NUT, HEX, M3 X .05		W1	5
13	530-512	CARD EJECTOR			2
14	204-159	WASHER, FLAT, M3	REF:ITEM 3,W1		15
15	187-259	TEST POINT		TP1-5	5
16	502-023	WASHER, INT. TOOTH M2.5		J1-4,6-9	16
17	530-579	CARD GUIDE			2
18	204-153	LOCKWASHER, #3, INTERINAL	REF:ITEM 3, W1		15

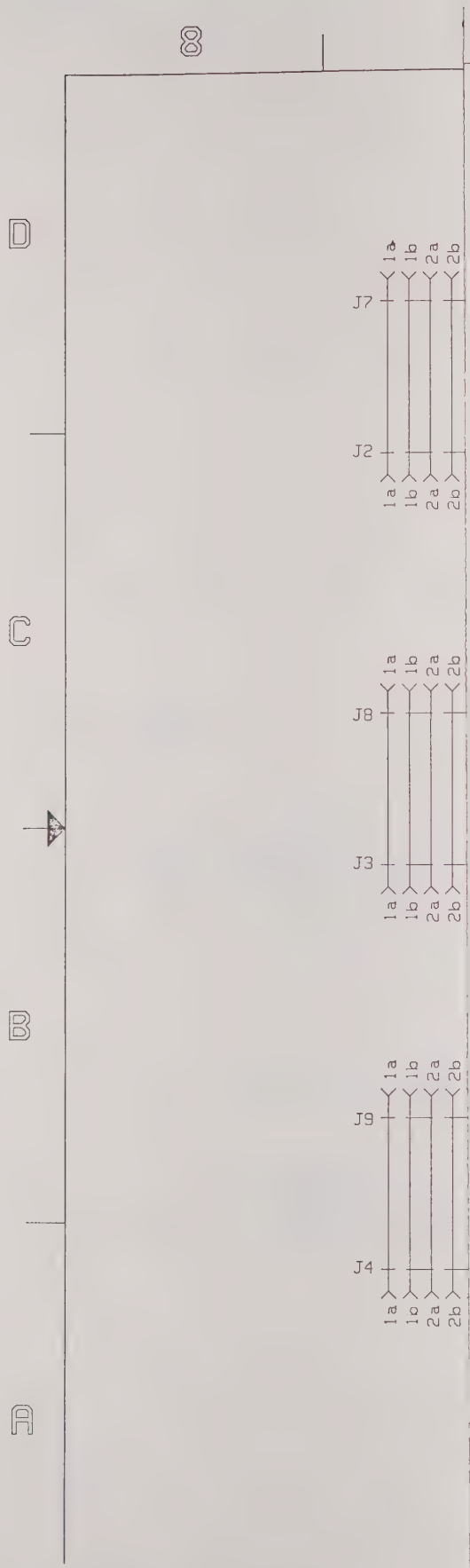


Assembly No. 1445919-01A.
SPU Extender PWA



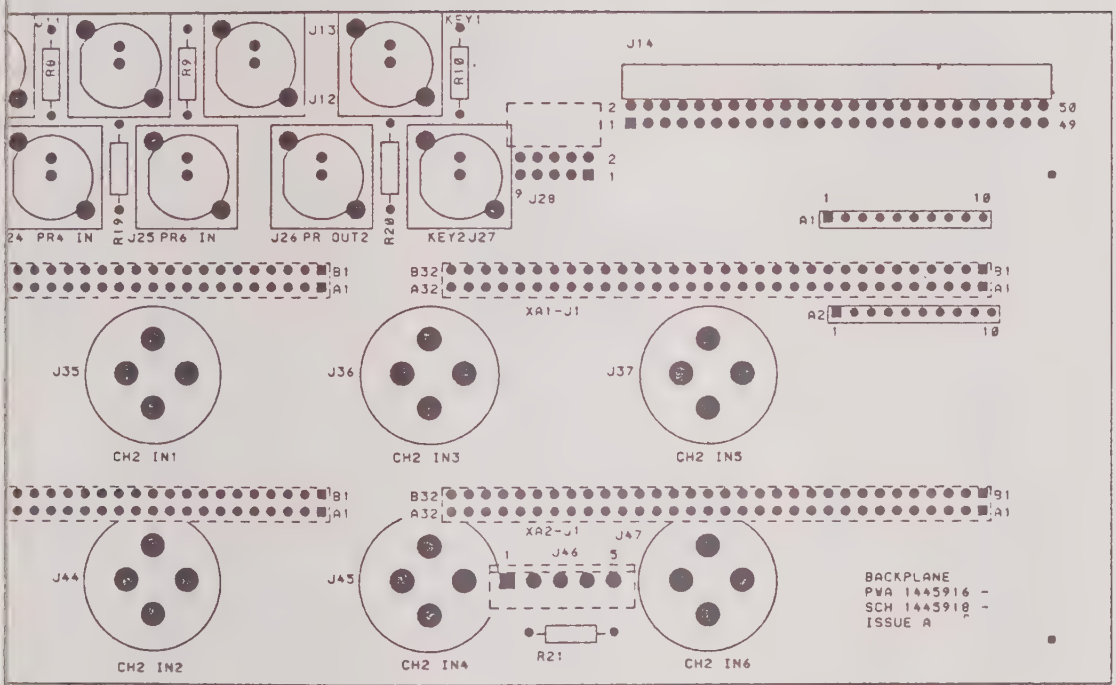
RENCE 1445919 AND LV 1431596 FOR NHAs.

Schematic No 1445921A.
SPU Extender PWA
(Sheet 1 of 2)

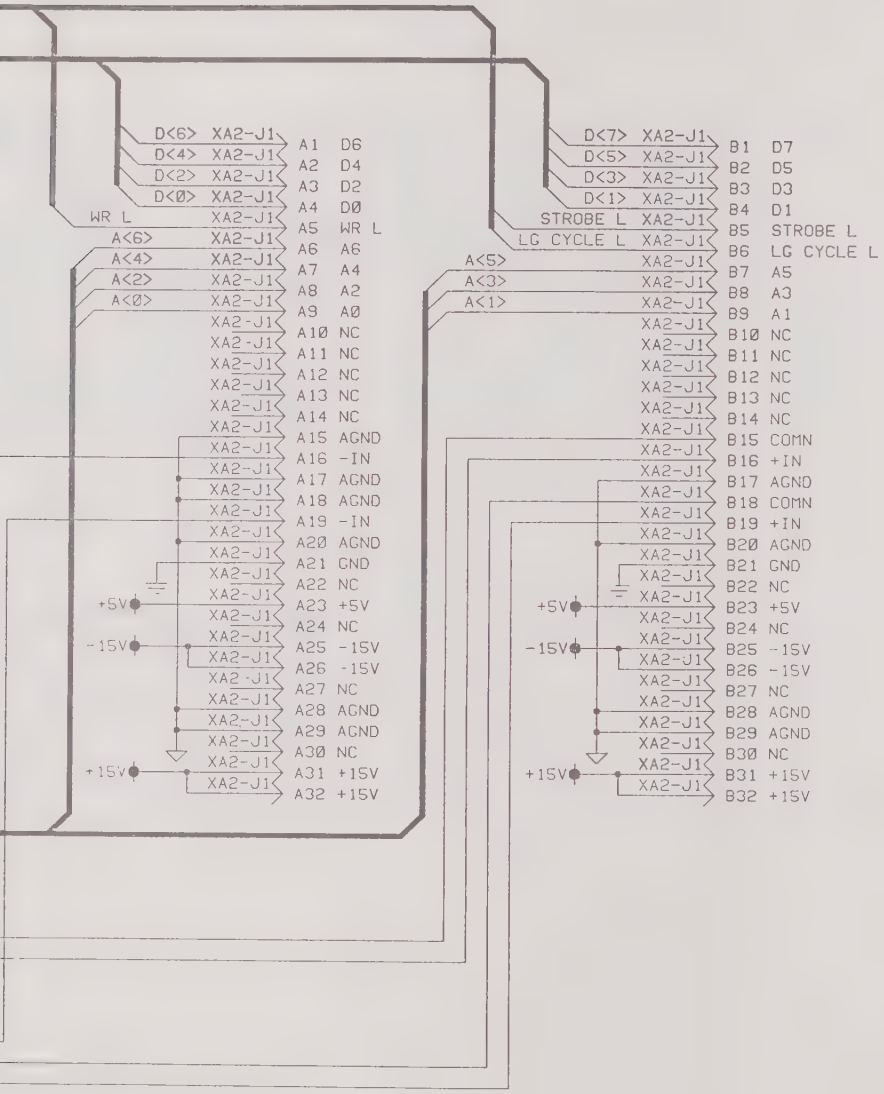


Schematic No. 1445921A.
SPU Extender PWA
(Sheet 2 of 2)

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY
1				
2	1445918-01	SCHEMATIC		REF
3	062-836	RESISTOR, 75 OHMS, 1%, 1/4 WATT	R1-9, 11-20	19
4	066-830	RESISTOR, 10K, 5%, 1/4 WATT	R21	1
5	039-294	RESISTOR NETWORK, 1K, 10 PIN, SIP	A1,2	2
6				
7	141-130	CONNECTOR, 64 POS.	XA1-J1,XA1-J2 XA1-J3,XA1-J4 XA2-J1,XA2-J2 XA2-J3,XA2-J4	8
8	140-664	CONNECTOR, 1 COAX SOCKET	J1-13,15-26	25
9	140-667	CONNECTOR, AUDIO RECEPTICAL, 3 SOCKET	J29-31,33,35-40,42,44,45 47	14
10	140-670	CONNECTOR, AUDIO RECEPTICAL, 3 PIN	J32,34,41,43	4
11	135-117	CONNECTOR, 10 POS.	J28	1
12	135-999	CONNECTOR, 5 POS. STRAIGHT	J46	1
13	135-993	CONNECTOR, 50 POS.	J14	1

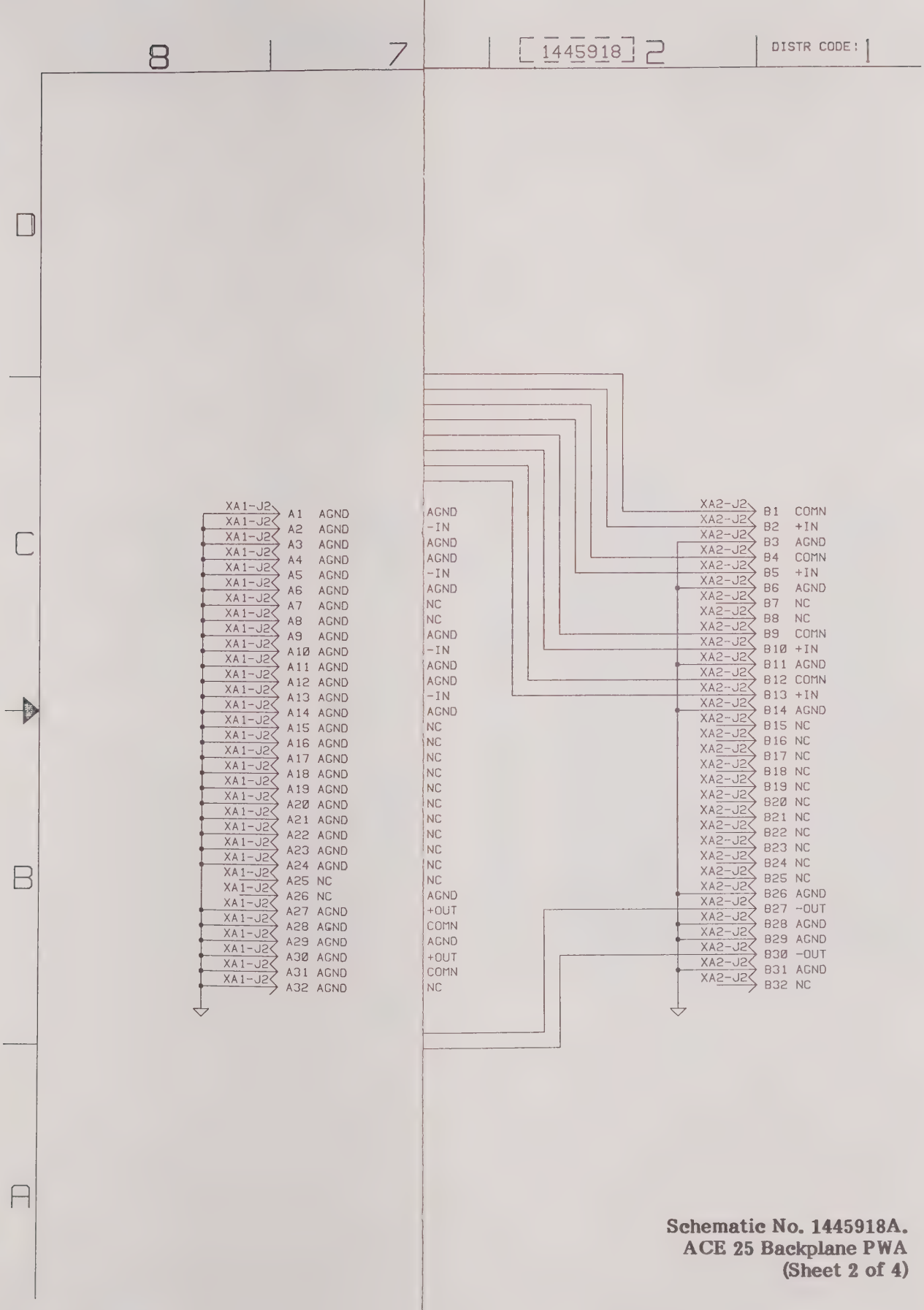


Assembly No. 1445916-01A.
ACE 25 Backplane PWA

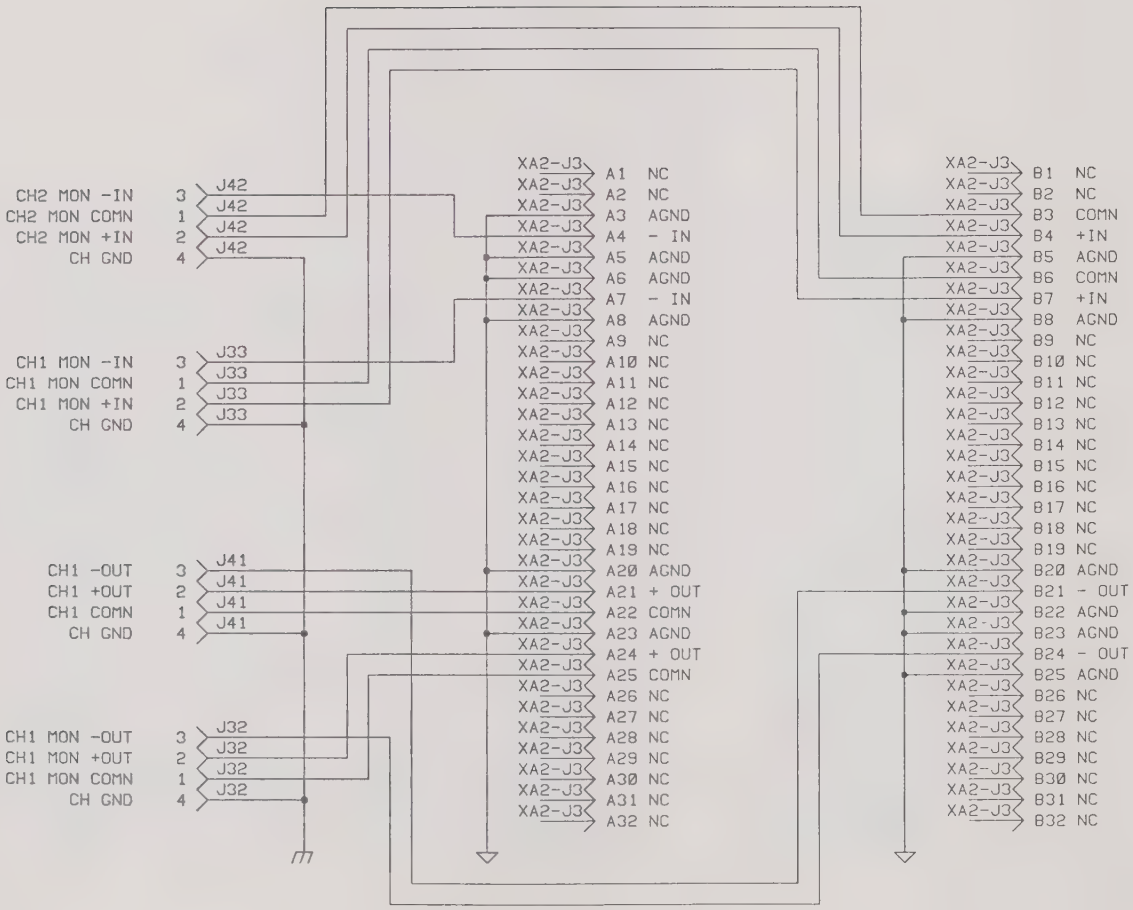


REFERENCE 1445916 AND LV 1431729 FOR NHAs.

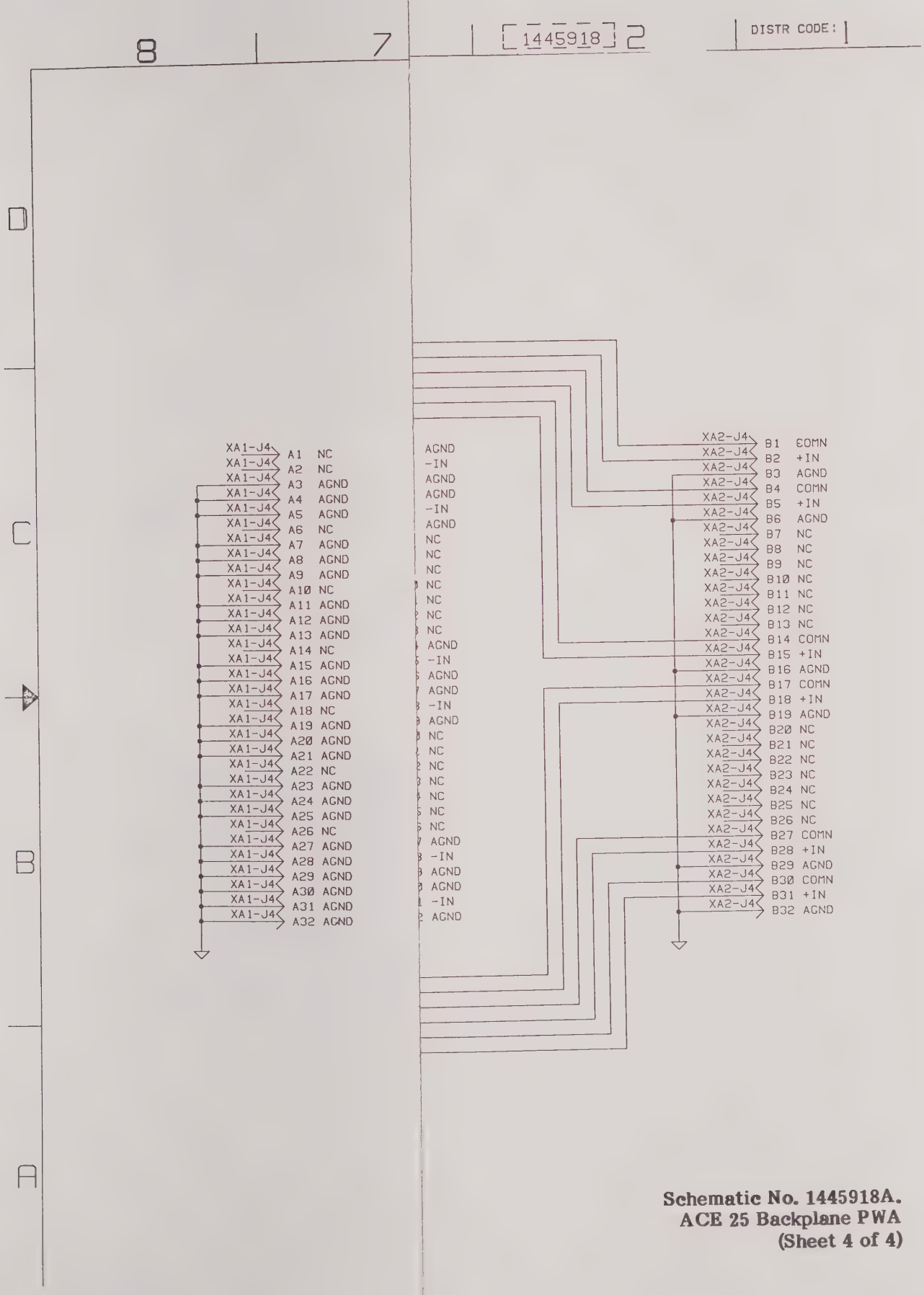
Schematic No. 1445918A.
ACE 25 Backplane PWA
(Sheet 1 of 4)



Schematic No. 1445918A.
ACE 25 Backplane PWA
(Sheet 2 of 4)

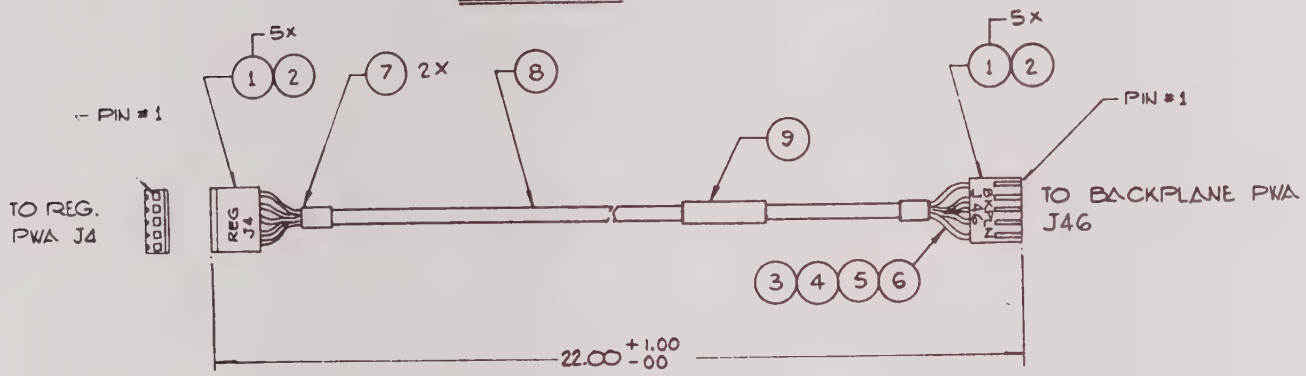


Schematic No. 1445918A.
ACE 25 Backplane PWA
(Sheet 3 of 4)



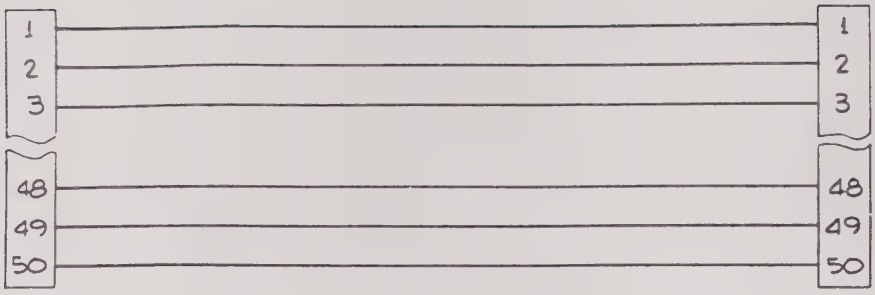
Schematic No. 1445918A.
ACE 25 Backplane PWA
(Sheet 4 of 4)

SCHEMATIC

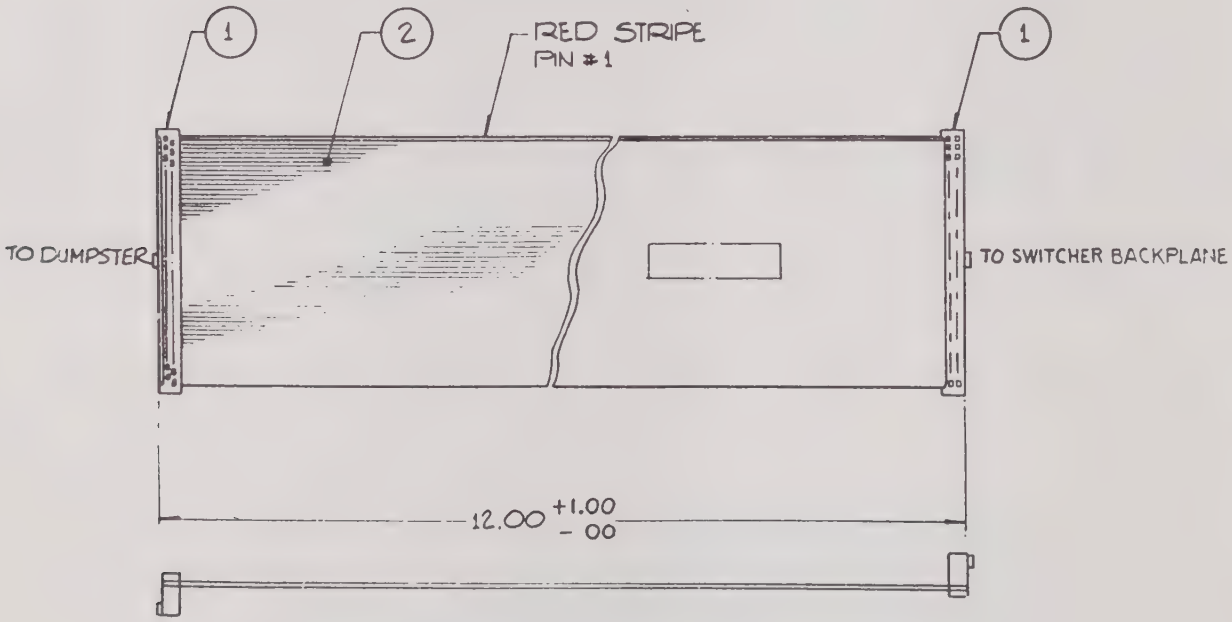


AR	9	202-066	LABEL	
AR	8	600-623	EXPANDO	
AR	7	CD726	SLEEVING, SHINKABLE	
AR	6	CD739	WIRE, STRD, INS, 18AWG, BLU.	
AR	5		WIRE, STRD, INS, 18AWG, BLK.	
AR	4		WIRE, STRD, INS, 18AWG, YEL.	
AR	3	CD739	WIRE, STRD, INS, 18AWG, RED.	
2	2	167-572	CONN, PART, PLUG, RECT, 5POS	
10	1	167-540	CONN, PART, CONTACT, 18-24AWG WIRE	
01	ITEM NO	PART NUMBER		DESCRIPTION

Assembly No. 1431719-01B. Regulator-Backplane Power Cable



SCHEMATIC



ITEM NO	PART NUMBER	DESCRIPTION	
01	202-065	LABEL	AR
2	616-692	CABLE RIBBON, 50 COND, 28AWG	AR
1	141-861	CONN, 50 POS, RIBBON MASS TERM.	2

Assembly No. 1431726-01B. Dumpster-Backplane Cable

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER -01
1	1445928-01	PWA, COMPONENT VIDEO SWITCHER		1
2	1445955-02	PWA, VIDEO TIMING REFERENCE		1
3				
4	1431587-01	BUFFER REFERENCE CABLE ASSEMBLY		1
5	1430931-01	COLOR FIELD/SWITCHER CABLE ASSEMBLY		1

LM-1431589

ITEM NO.	PART NUMBER	D E S C R I P T I O N	NOTE	REFERENCE DESIGNATOR	QTY
	*	indicates a NOTE see last page of List Of Materials			
1					
2	1445930-01	SCHEMATIC			REF
3	066-938	RESISTOR, 47 OHMS, 5%, 1/4 W		R322,429,575	3
4	076-026	RESISTOR,3.9 OHMS, 5%, 1/4 W		R98,99,317	3
5	076-045	RESISTOR, 75 OHMS, 1%, 1/4 W		R227,228,430,431 573,574	6
6	066-812	RESISTOR, 100 OHMS, 5%,1/4W		R326,340,423,556 576,595	6
7	062-847	RESISTOR, 100 OHMS, 1%,1/4W		R103,104,111,112 115,116,143,144 147,148,169,170 171,174,206-208 211,212,215,218 219	22
8	066-662	RESISTOR, 200 OHMS, 5%,1/4W		R67,70,73,76,78 80,82,84,184,186 193,195,198,201	14
9	066-663	RESISTOR, 220 OHMS, 5%,1/4W		R100,297,315	3
10	066-859	RESISTOR, 240 OHMS, 5%,1/4W		R334,343,357,363 374,385,397,413 419,439,447,464 470,480,491,500 514,523,531,540 551,601-612	33
11	066-815	RESISTOR, 300 OHMS,5%, 1/4 W		R8-10,12,18,20,26 28,34,36,42,44, 50,52,58,60,66, 69,72,75,86,88, 90,92,97,110,114 122,124,125,127	88

ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
				133,135,142,146	
				156,158,159,161	
				168,173,180,182	
				183,188,190,194	
				197,203,205,210	
				214,216,217,226	
				230,264,281,286	
				298,302-305,323	
				337,368,378,382	
				395,428,432,442	
				446,466,477,478	
				486,501,517,526	
				527,538,569,571	
				572,593,594	
12	066-818	RESISTOR, 470 OHMS,5%, 1/4 W		R13,21,29,37,45, 53,61,108,123, 128,136,153,157 162,181,231,239 245,250,251,257 268,271,277,278 287,312,314,324 327,345,358 366,379,383,399 416,422,436,444 449,463,476,479 487,503,515,524 529,541,552,563 570,579,597,253	56
13	066-820	RESISTOR, 750 OHMS, 5%,1/4 W		586	1
14	066-665	RESISTOR, 1K, 5%, 1/4 W		R246,272,300,321 336,372,387,437 472,482,493,521 533,578,266	15
15	062-624	RESISTOR, 1K, 1%, 1/4 W		R259,261	2
16					
17	066-824	RESISTOR, 1.5K, 5%, 1/4 W		R263	1
18	066-826	RESISTOR, 2K, 5%, 1/4 W		R252,279,330,347 339,355,365,401, 411,417,420,421, 451,461,505,512, 543,550,553,560, 600	21
19					
20	192-651	RESISTOR, 2.1K, 0.1%, 1/8 W	* 1	R224	1
21	066-689	RESISTOR, 2.2K, 5%, 1/4 W		R331,424,577	3
22	066-928	RESISTOR, 2.4K, 5%, 1/4 W		R105,296,328,332 390,425,558,561	8
23	066-666	RESISTOR, 2.7K, 5%, 1/4 W		R11,19,27,35,43, 51,59,68,71,74, 77,87,89,91,93, 102,106,109,113 121,126,134,141	54

ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
				145,155,160,167	
				172,179,185,189	
				191,196,199,202	
				204,209,213,233	
				282,289,295,299	
				325,376,381,427	
				433,474,485,489	
				530,568,581	
24	066-667	RESISTOR, 3K, 5%, 1/4 W		341,342,391,392	6
				554,557	
25	062-639	RESISTOR, 3.01K, 1%, 1/4 W		R236	1
26	066-863	RESISTOR, 3.6K, 5%, 1/4 W		R249,276,318	3
27	041-511	RESISTOR, 3.9K, 5%, 1/4 W		R267,590-592	4
28	066-512	RESISTOR, 4.22K, 1%, 1/4 W		R308	1
29	066-828	RESISTOR, 4.3K 5%, 1/4 W		R107,154,241,242	16
				274,275,377,380	
				384,435,475,483	
				488,525,596,528	
30	062-968	RESISTOR, 4.99K, 1%, 1/4 W		R101,301,307,309	6
				310,584	
31	066-842	RESISTOR, 5.1K, 5%, 1/4 W		R17,25,33,41,49,	28
				57,65,117,132,	
				140,149,166,175	
				244,290,360,369	
				394,440,469,496	
				499,518,536,567	
				588,247,284	
32	062-973	RESISTOR, 5.76K, 1%, 1/4 W		R260,262	2
33	062-954	RESISTOR, 3.16K, 1%, 1/4 W		R237	1
34	066-453	RESISTOR, 6.49K, 1%, 1/4 W		R294,306	2
35	062-976	RESISTOR, 7.15K, 1%, 1/4 W		R320,5	2
36	066-711	RESISTOR, 7.5K, 5%, 1/4 W		R220	1
37	066-822	RESISTOR, 910, 5%, 1/4 W		R319	1
38	066-513	RESISTOR, 8.66K 1%, 1/4 W		R583	1
39	066-670	RESISTOR, 9.1K, 5%, 1/4 W		R283	1
40	066-830	RESISTOR, 10K, 5%, 1/4 W		R1,15,23,31,39,47	35
				55,63,120,130,	
				138,152,164,178,	
				229,234,265,	
				291,329,333,338,	
				362,389,396,414,	
				426,445,467,494,	
				497,537,559,562,	
				564,589	
41	062-983	RESISTOR, 10K, 1%, 1/4 W		R2,4,94,96,293	5
42	079-974	RESISTOR, 10K, 0.1%, 1/8 W	* 1	R222,225	2
43	066-831	RESISTOR, 11K, 5%, 1/4 W		R585	1
44	192-654	RESISTOR, 12.1K, 0.1%, 1/8 W	* 1	R223	1
45	066-856	RESISTOR, 15K, 5%, 1/4 W		R316	1
46	062-998	RESISTOR, 18.7K, 1%, 1/4 W		R582	1
47	066-712	RESISTOR, 22K, 5%, 1/4 W		R14,22,30,38,46,	25
				54,62,119,129,	

ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
				137,151,163,177, 232,288,335,373, 386,438,471,481, 492,522,532,565	
48	066-160	RESISTOR, 6.04K, 1%, 1/4 W		R3	1
49					
50	066-717	RESISTOR, 47K, 5%, 1/4 W		R344,359,367,398 415,443,448,465 502,516,539,555	12
51					
52	066-847	RESISTOR, 33K, 5%, 1/4 W		R240,254,258,269 580	5
53	066-183	RESISTOR, 60.4K, 1%, 1/4 W		R95	1
54	066-857	RESISTOR, 91K, 5%, 1/4 W		R346,356,364,400 412,418,450,462, 504,513,542,549	12
55	066-849	RESISTOR, 100K, 5%, 1/4 W		R79,81,83,85,187 192,200	7
56	066-060	RESISTOR, 26.1K, 1%, 1/4 W		R7	1
57	066-714	RESISTOR, 35.7K, 1%, 1/4 W		R6	1
58	066-012	RESISTOR, 40.2K, 1%, 1/4 W		R587	1
59	066-652	RESISTOR, 470K, 5%, 1/4 W		R16,24,32,40,48, 56,64,118,131, 139,150,165,176 235,292,311,361 370,393,441,468 495,498,519,535 566	26
60	-------	RESISTOR, A/R		R221	1
61					
62	075-432	RESISTOR VAR., 200, SIDE ADJ		R349,352,402,405 408,452,455,458 506,509,544,547	12
63	075-434	RESISTOR VAR., 500, SIDE ADJ		R371,375,388,434 473,484,490,520 534	9
64	075-565	RESISTOR VAR., 1K, SIDE ADJ.		R243,273	2
65	075-572	RESISTOR VAR.,10K, TOP ADJ.		R285	1
66	075-573	RESISTOR VAR., 20K, SIDE ADJ		R238,255,256,270 280	5
67	075-439	RESISTOR VAR., 50K, SIDE ADJ		R348,350,351,353, 354,403,404,406, 407,409,410,453, 454,456,457,459, 460,507,508,510, 511,545,546,548	24
68	075-571	RESISTOR VAR.,10K SIDE ADJ.		R248	1
69	039-399	RESISTOR NETWORK,MIXED VALUE 8 PIN SIP		A40,41,59	3
70	039-413	RESISTOR NETWORK,MIXED VALUE 8 PIN SIP		A43	1
71					

ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
72					
73					
74	064-199	CAPACITOR, 2.2 +- .25pf,100V CERAMIC		C278,280,303,306, 333,336,359,362, 389,392,419,422	12
75	064-201	CAPACITOR, 3.3 +- .25pf,100V CERAMIC		C81,247,253	3
76	064-202	CAPACITOR, 4.7 +- .5pf, 100V CERAMIC		C291,315,318,347, 374,377,404,407, 413	9
77	064-203	CAPACITOR, 5.6 +- .5pf, 100V CERAMIC		C82,249,254,259, 269,326,438	7
78	064-204	CAPACITOR, 6.8 +- .5pf, 100V CERAMIC		C1,462-464,441	5
79	064-205	CAPACITOR, 8.2 +- .5pf, 100V CERAMIC		C258	1
80	064-208	CAPACITOR, 15pf, 100V, 5%, CERAMIC		C288,297,319,344 354,373,384,403 414	9
81	064-856	CAPACITOR, 22pf, 100V, 5%, CERAMIC		C207,231,268,325, 428	5
82	064-212	CAPACITOR, 39pf, 100V, 5%, CERAMIC		C264,265	2
83					
84	064-215	CAPACITOR, 68pf, 100V, 5%, CERAMIC		C176-179,182,183, 185-189	11
85	064-217	CAPACITOR, 100pf, 100V, 5%, CERAMIC		C196	1
86	064-218	CAPACITOR, 120pf, 100V, 5%, CERRAMIC		C60,65,70,75,129, 134,139	7
87	064-224	CAPACITOR, 560pf, 100V, 5%, CERAMIC		C250	1
88	064-227	CAPACITOR, 1000pf, 100V, 5%, CERRAMIC		C17,25,31,37,43,49 55,89,95,101,108 114,120,202,239, 270,295,313,327, 351,369,381,399, 411,429	25
89	069-253	CAPACITOR, 1500pf, 100V, 5%, CERRAMIC		C198,211,214,217, 219,223,225,233, 256	9
90	064-298	CAPACITOR, .01uf, 100V, 20%, CERAMIC		C262	1
91	064-062	CAPACITOR, .1uf, 100V, 20%, CERAMIC		C3,5,8,11,15,16, 18-20,23,24,26, 29,30,32,35,36, 38,41,42,44,47, 48,50,53,54,56, 59,61,64,66,69, 71,74,76-80,85-88 90,93,94,96,99, 100,102,105-107 109,112,113,115,	256

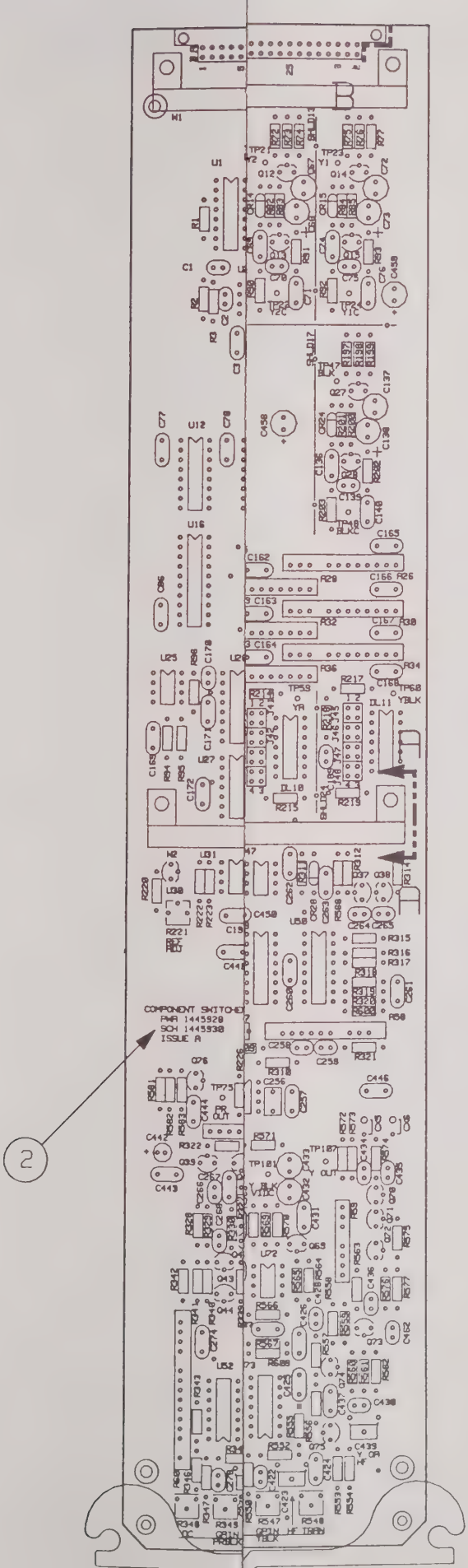
ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
				118,119,121,124-126,130,131,135,136,140-149,150-169,171-175,180,181,184,190,191,194,195,197,199 203-206,208,210,212,215,216,218,220,224,226-230,232,234-238,242-246,248,251,252,255,257,260,261,263,267,271,272 274-277,282-287 290,293,294,296 298,299,300-302,305,308-312,314 317,320-322,324 328-332,335,338 339-343,345,349 350,352,353,355-358,361,364-366 368,370-372,376 379,380,382,383 385-388,391,394-398,400,402,406 409,410,412,415-418,421,424-427 430,431,437,443-451,453-455,465 209	
92	063-578	CAPACITOR, 22uF, 25V, 20%, ALUM.		C4,9,12,442	4
93	037-954	CAPACITOR, 22uF, 15V, 20%, TANT.		C13,14,21,22,27,28 33,34,39,40,45,46 51,52,57,58,62,63 67,68,72,73,91,92 97,98,103,104,110 111,116,117,122, 123,127,128,132, 133,137,138,200, 201,240,241,432, 433	46
94	037-963	CAPACITOR, 33uF, 10V, 20%, TANT.		C289,292,316,346 348,375,378,405 408	9
95	.....	CAPACITOR, A/R		C2,83,84,192, 193,213,221,222 266,323,434,435 436,452	14
96	038-350	CAPACITOR VAR., 2-10pF, SIDE ADJ.		C273,279,281,304 334,337,360,363	15

ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
				390,393,420,423	
				439,440,307	
97	037-893	CAPACITOR, 15uF, 20V, 20%,		C7,10,456-461	8
98		TANT.			
99	064-210	CAPACITOR, 27pF, 100V, 5%		C170	1
		CERAMIC			
100	002-093	IC, 74HC00		U29	1
101	003-146	IC, 74HC74		U27	1
102	003-637	IC, 74HC133	* 1	U33	1
103	003-376	IC, 74HC138		U17	1
104	004-094	IC, 74HC154		U18,32	2
105	003-423	IC, 74HC174		U49	1
106	003-150	IC, 74HC373	* 1	U16	1
107	003-670	IC, 74HC4050		U12-15	4
108	590-054	IC, AD7524		U26	1
109	586-778	IC, CA3054		U52,54,56,58,59,61	12
				63,65,67,69,71,73	
110	590-031	IC, CA3094		U5-11,19-24,35,46	26
				47,53,55,57,60,62	
				64,66,68,70,72	
111	587-322	IC, CD4049	* 1	U1	1
112	004-534	IC, DG212	* 1	U50	1
113	001-962	IC, LF398		U34,36-38,41-43,45	9
				51	
114	003-142	IC, LF412A		U2,25,31,39	4
115	589-810	IC, LF13202		U28,48	2
116	581-996	IC, LT1009		U30	1
117	590-179	IC, MC1595		U40,44	2
118	587-440	IC, UA7812		U4	1
119	589-862	IC, UA7912		U3	1
120					
121					
122	581-105	DIODE, 1N4148		CR1-38	38
123	580-226	TRANSISTOR, NPN, 2N4124	* 2	Q1-7,16-22,29,30,	47
				32,35,38,39,41,42	
				45-51,53,54,57-71	
				73	
124	580-809	TRANSISTOR, PNP, 2N4126	* 2	Q8-15,23 28,31,33,	29
				34,36,37,40,43,44	
				52,55,56,72,74-76	
125	051-770	FERRITE FILTER		FL1-3	3
126	570-511	DELAY LINE, 150ns, BINARY		DL1-11	11
127	187-259	TEST POINT		TP101.103-107	106
128	582-517	HEAT SINK		HS1,2	2
129	070-443	FUSE, 5A		F1	1
130	173-734	TERMINAL,BIFURCATED SWAGE		X1,2	2
131	932-035	FERRITE BEAD	* 2	W3,Q1-7,9,11,13,15	53
				17-22,24,26,28,30	
				35,40,52,69,72	
132	1442853-AB	CONNECTOR, 4 POS.		J5-50	46
133	602-066	JUMPER, 2POS.		REF: P5-50	90
134	582-330	IC. SOCKET, 14 PIN		U52,54,58,59,61,63	23

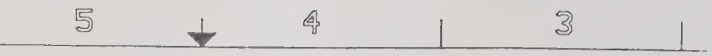
ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
				65,67,69,71,73,56 DL1-11	
135	141-129	CONNECTOR, 64 POS., RIGHT ANGLE		J1-4	4
136	204-759	SCREW, PPH, M2.5 X 0.45 X 12mm		J1-4	8
137	204-757	NUT, HEX, M2.5 X 0.45		J1-4	8
138	502-023	WASHER, INTERNAL TOOTH, M2.5		J1-4	8
139	204-099	SCREW, M3 X 0.5 X 10, PPH		U1,2,W1,2	14
140	204-171	NUT, M3 X 0.5		U1,2,W1,2	14
141	204-159	WASHER, FLAT M3		U1,2,W1,2	14
142	204-153	LOCKWASHER, M3		U1,2,W1,2	14
143	530-512	CARD EJECTOR			2
144	1445943-01	CARD STIFFENER		W1,2	2
145	1445008-01	PWA, DUAL CROSSPOINT, SMA	* 1	A1-36,38,39	38
146	1445011-01	PWA, VIDEO AMPLIFIER, SMA	* 1	A37,52,57,58	4
147	1445014-01	PWA, ANALOG AND GATE, SMA	* 1	A45,46,49,51,53,56	6
148	1445017-01	PWA, ANALOG OR GATE, SMA	* 1	A42,44,47,48,50,54 55,72,73	9
149	1445025-01	PWA, VIDEO MIXER, SMA	* 1	A60-71	12
150	615-004	WIRE, SOLID, BUS 24 AWG		W3	A/R
151	502-551	WASHER, NYLON		J1-4	8

* 1 STATIC SENSITIVE: REQUIRES SPECIAL HANDLING.

* 2 USE FERRITE BEAD ON EMITTER AND COLLECTOR LEADS REFERENCED IN ITEM # 131, AND ONE BEAD ON W3.



Assembly No. 1445928-01A.
Component Switcher 1 PWA

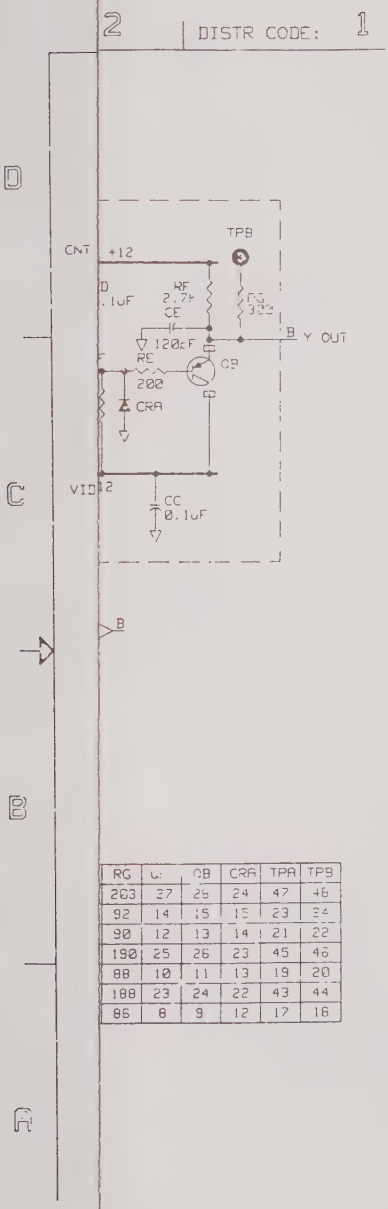


SMA POWER LIST							
REFERENCE DESIGNATOR	NAME	AMPEX P/N	POWER				
			+5	+12	-12	AGND	DGND
A1-36,38,39	XPT	1445008	3	12	1	4,10	—
A42,44,47,48, 50,54,55,72,73	OR GATE	1445017	—	1	10	5	—
A45,46,49,51, 53,56	AND GATE	1445014	—	10	1	5	—
A37,52,57,58	VID AMP	1445011	—	10	2	1	—
AE0-71	VIDEO MIXER	1445025	--	14	7,12	1,10	—

REFERENCE DESIGNATOR		
LAST USED		NOT USED
P73	U73	P1-P4
C465	X2	R216,313,
D11	P50	598,599
CP38	J50	C6,367,401
R612	TP107	TP102
Q76	F1	
W3	HS2	
SHLD17	FL3	

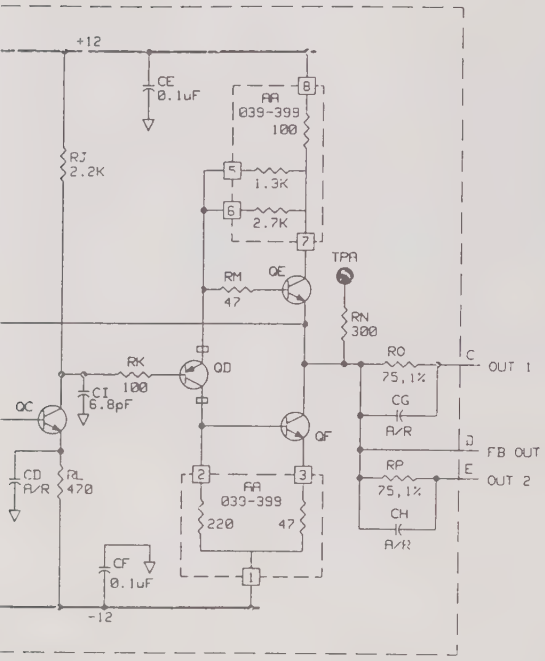
FIELD SERVICE LIST	
AMPEX P/N	VENDOR P/N
580-226	2N4124
580-809	2N4126
581-105	1N4148

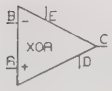
Schematic No. 1445930B.
Component Switcher 1 PWA
(Sheet 1 of 14)



RG		QB	CRA	TPA	TPB
203	27	25	24	47	46
92	14	15	15	23	24
90	12	13	14	21	22
190	25	26	23	45	46
88	10	11	13	19	20
188	23	24	22	43	44
86	8	9	12	17	18

Schematic No. 1445930B.
Component Switcher 1 PWA
(Sheet 2 of 14)

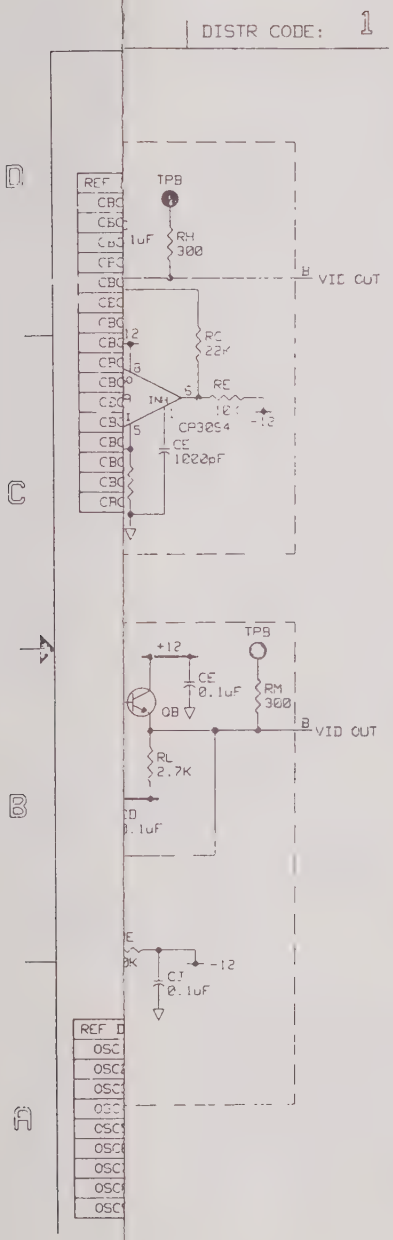




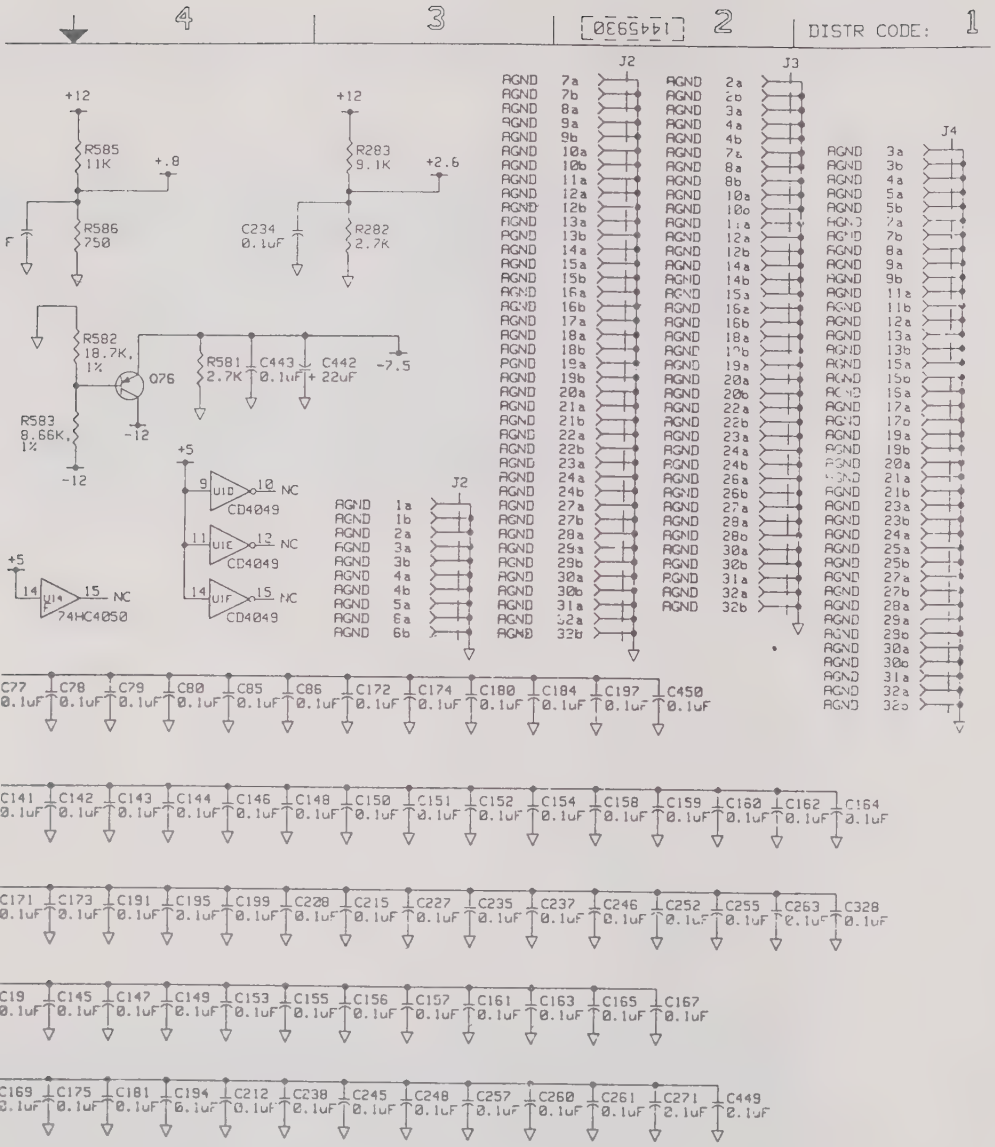
"XOA" DETAIL

RN	RO	RP	QA	QB	QC	QD	QE	QF	CG	CH	CI	QA	QB	QC	QD	QE	QF	AA	TPA
572	574	573	428	438	439	436	446	437	435	434	462	75	74	73	72	71	70	59	107
428	430	431	325	326	440	323	445	324	221	222	463	56	55	54	52	51	53	41	83
226	227	228	268	269	273	266	444	267	192	193	464	44	43	42	40	39	41	40	75

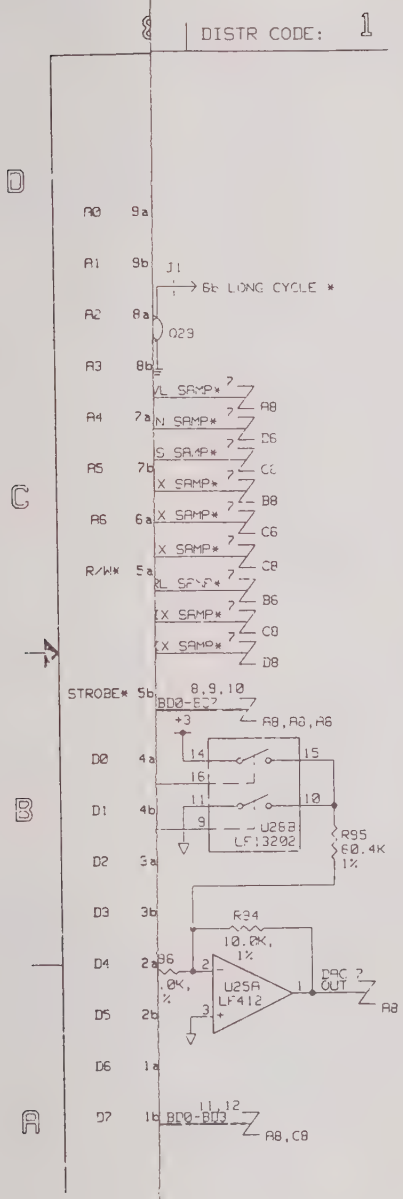
Schematic No. 1445930B.
Component Switcher 1 PWA
(Sheet 3 of 14)



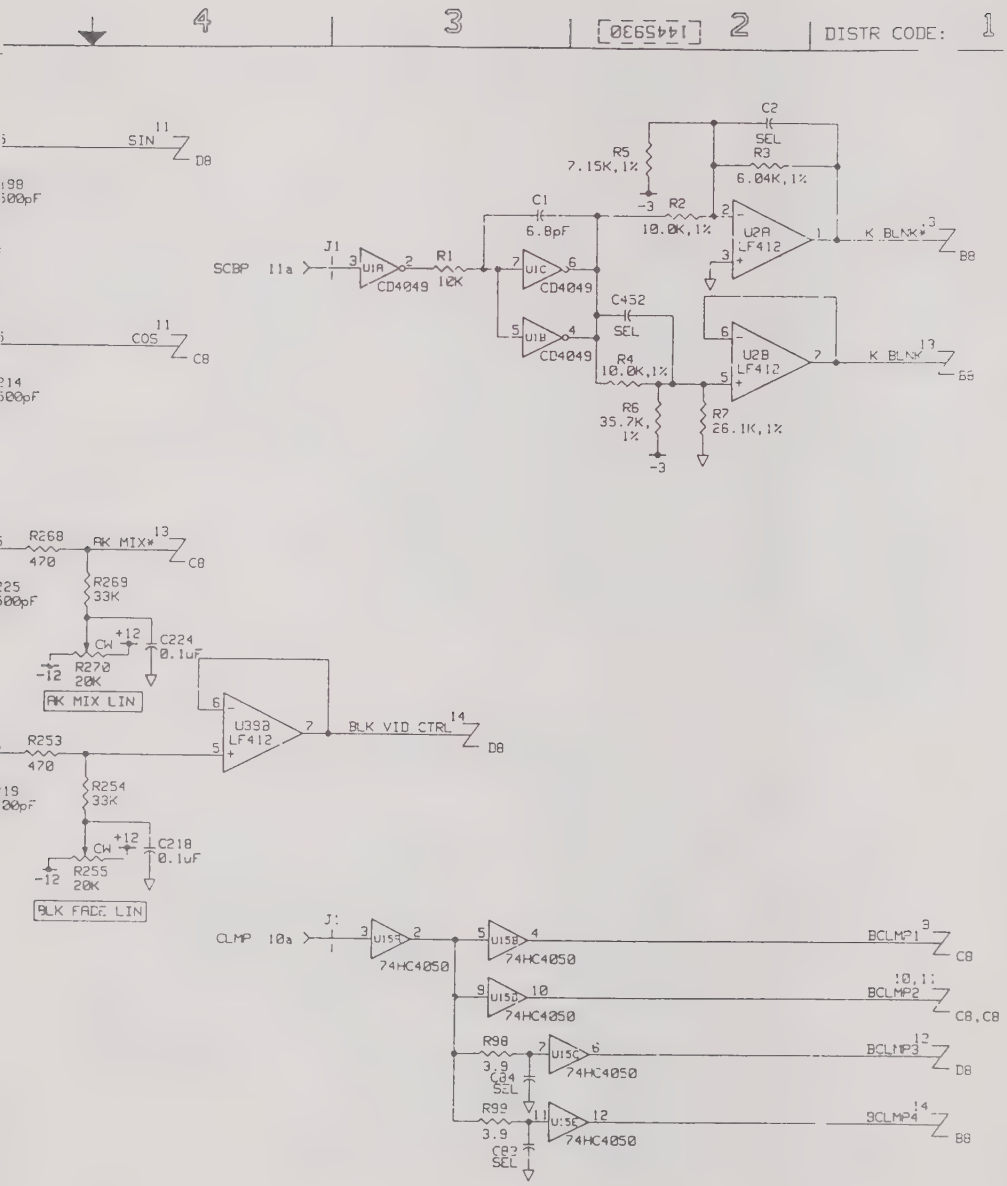
Schematic No. 1445930B.
Component Switcher 1 PWA
(Sheet 4 of 14)



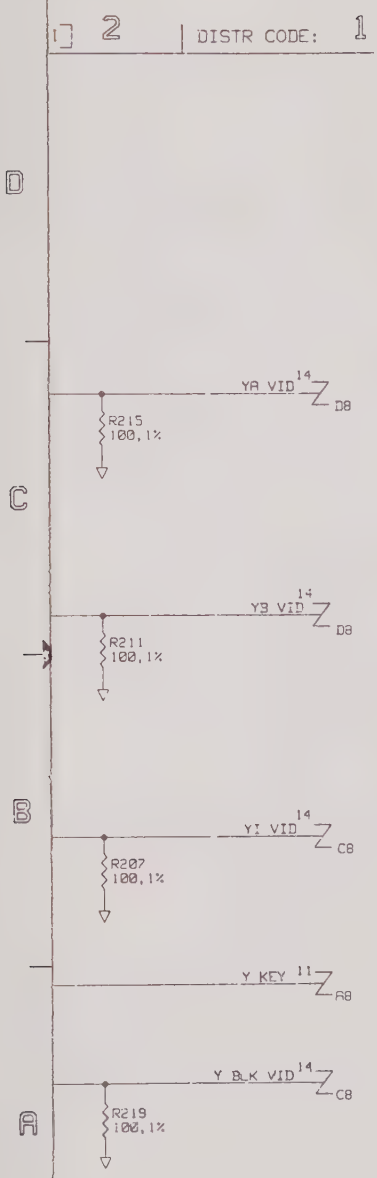
Schematic No. 1445930B.
Component Switcher 1 PWA
(Sheet 5 of 14)



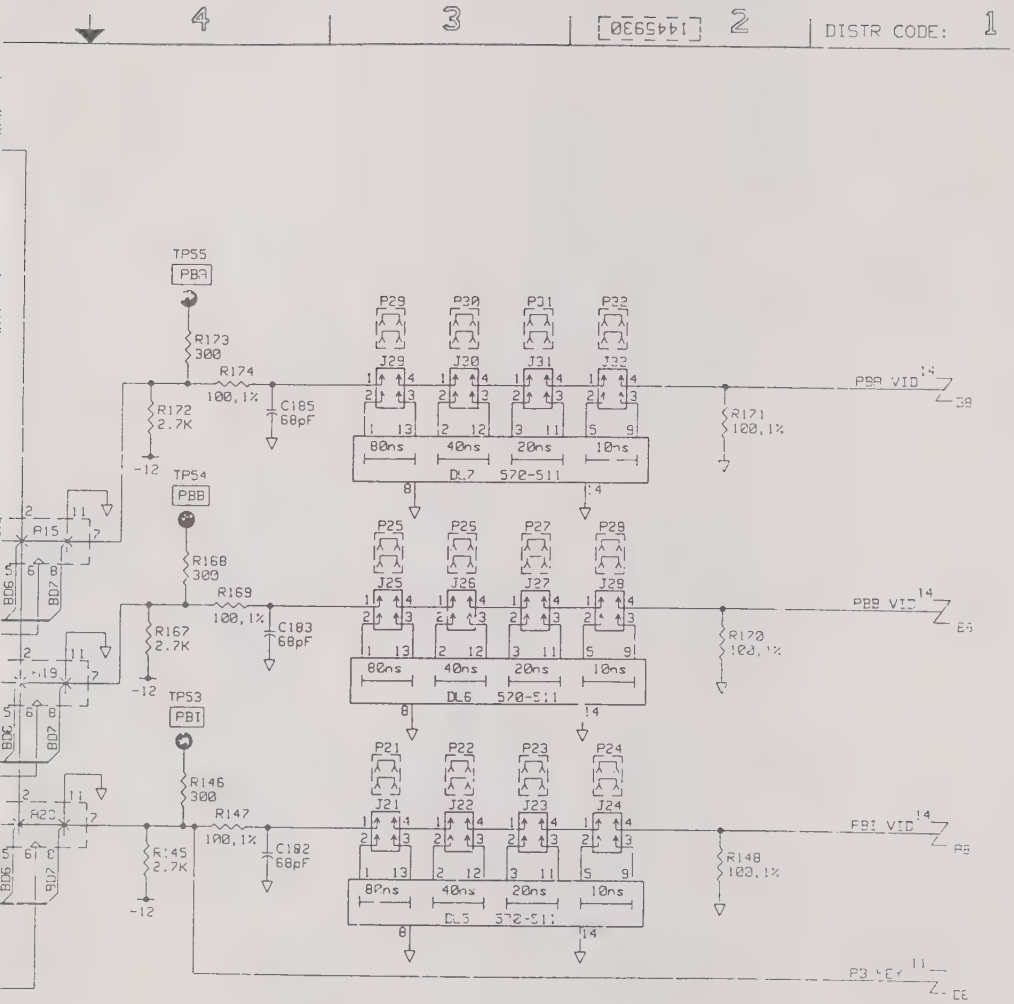
Schematic No. 1445930B.
Component Switcher 1 PWA
(Sheet 6 of 14)



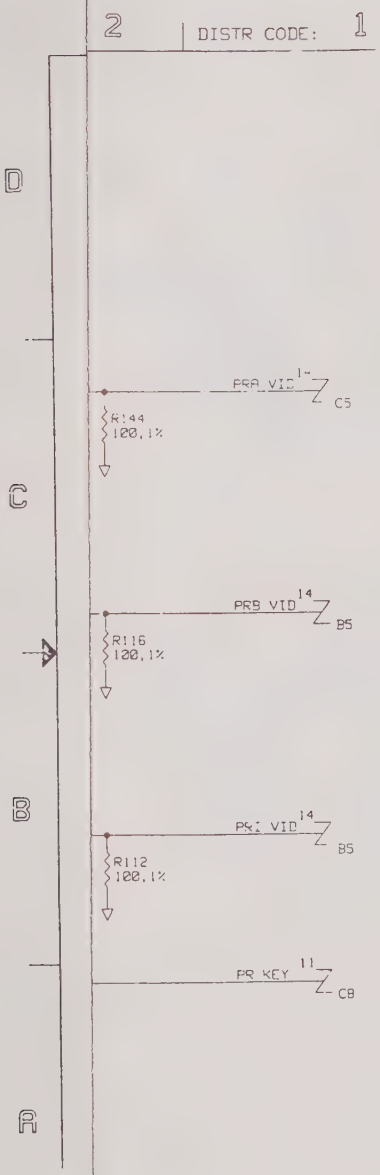
Schematic No. 1445930B.
Component Switcher 1 PWA
(Sheet 7 of 14)



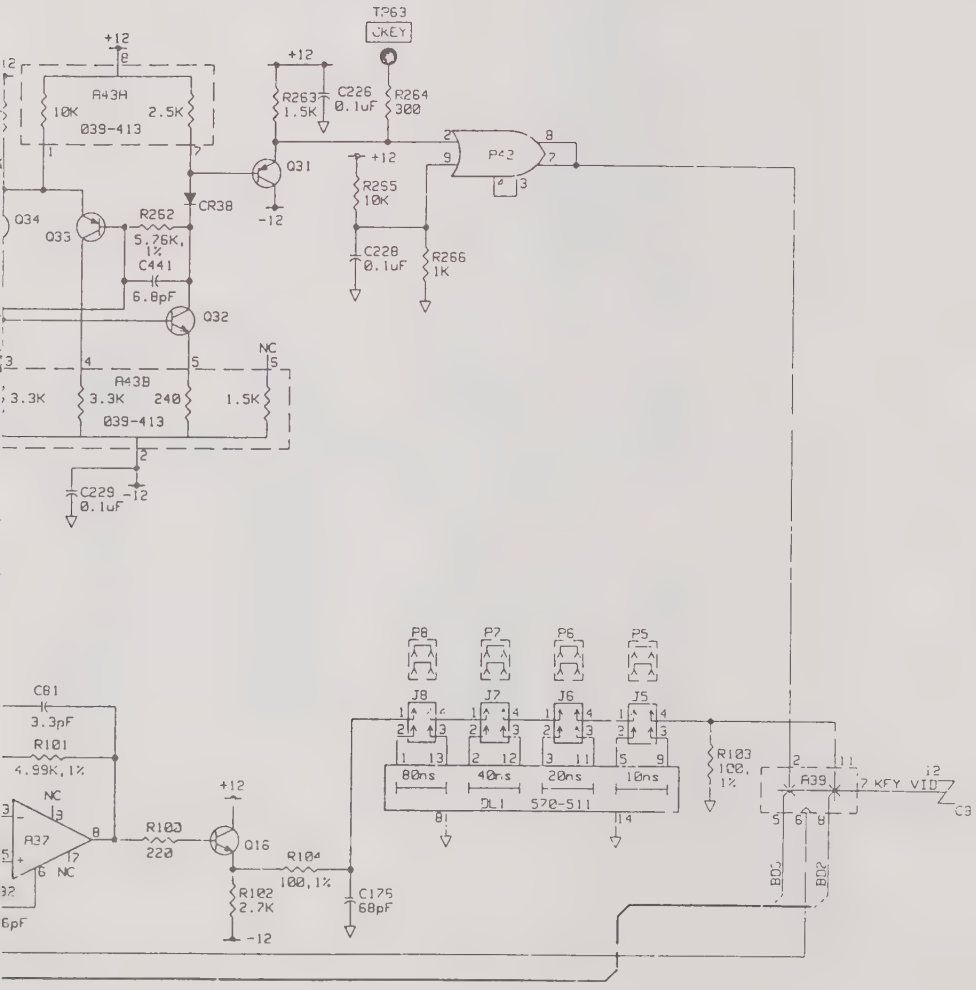
Schematic No. 1445930B.
Component Switcher 1 PWA
(Sheet 8 of 14)



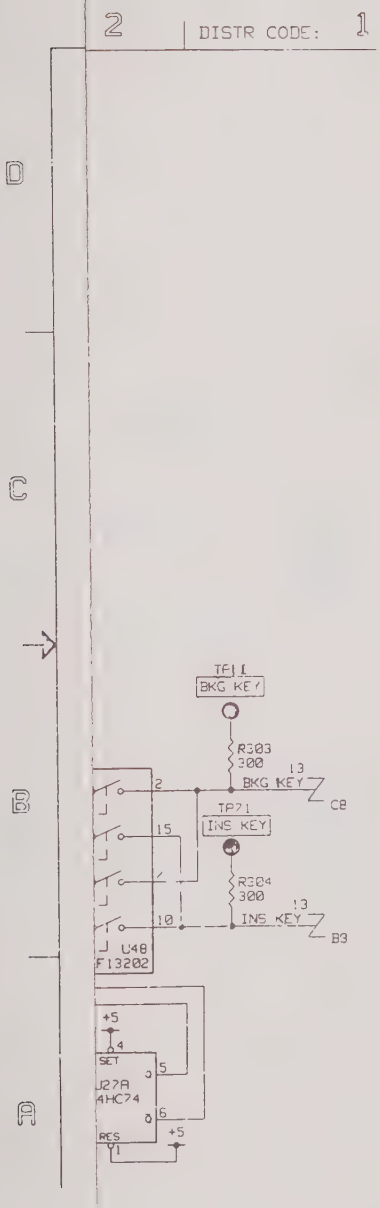
Schematic No. 1445930B.
Component Switcher 1 PWA
(Sheet 9 of 14)



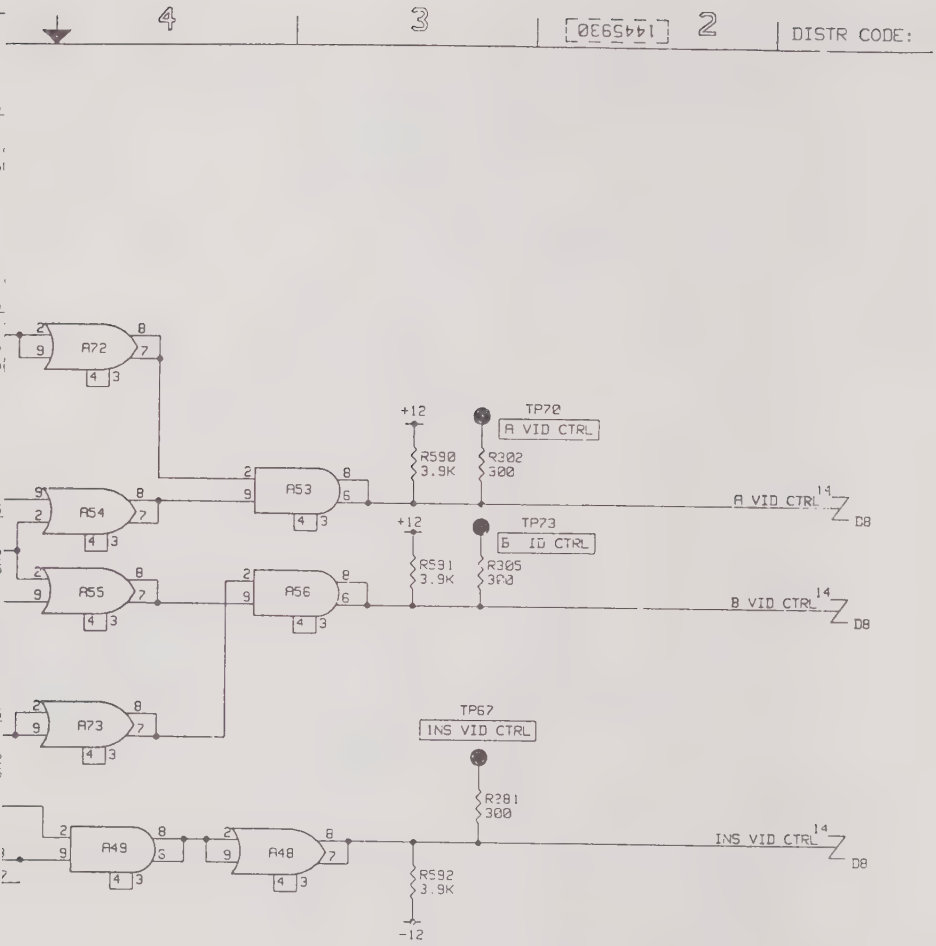
Schematic No. 1445930B.
Component Switcher 1 PWA
(Sheet 10 of 14)



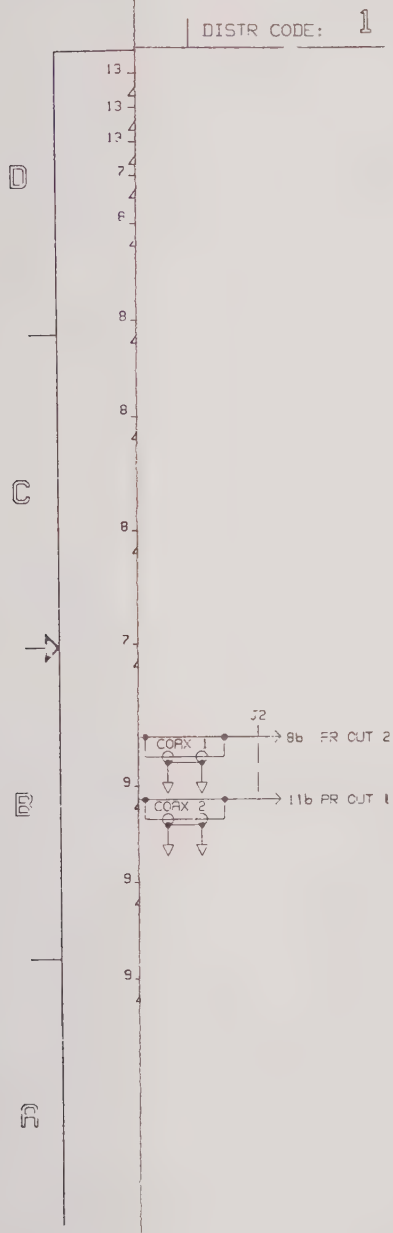
Schematic No. 1445930B.
Component Switcher 1 PWA
(Sheet 11 of 14)



Schematic No. 1445930B.
Component Switcher 1 PWA
(Sheet 12 of 14)



Schematic No. 1445930B.
Component Switcher 1 PWA
(Sheet 13 of 14)



Schematic No. 1445930B.
Component Switcher 1 PWA
(Sheet 14 of 14)

ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
	*	indicates a NOTE see last page of List Of Materials			
1					
2	1445957-02	SCHEMATIC			REF
3	076-045	RESISTOR, 75 OHMS, 5%, 1/4 W		R46	1
4	066-662	RESISTOR, 200 OHMS, 5%, 1/4 W		R11	1
5	066-859	RESISTOR, 240 OHMS, 5%, 1/4 W		R25,32	2
6	066-818	RESISTOR, 470 OHMS, 5%, 1/4 W		R3	1
7	066-820	RESISTOR, 750 OHMS, 5%, 1/4 W		R6	1
8	066-665	RESISTOR, 1K, 5%, 1/4 W		R12,13,23,24,31	5
9	066-715	RESISTOR, 1.2K, 5%, 1/4 W		R20	1
10	066-826	RESISTOR, 2K, 5%, 1/4 W		R16,33	2
11	076-824	RESISTOR, 1.8 5%, 1/4 W		R28	1
12	066-689	RESISTOR, 2.2K, 5%, 1/4 W		R22	1
13	066-710	RESISTOR, 19.6K, 1%, 1/4 W		R36	1
14	062-973	RESISTOR, 5.76K, 1%, 1/4 W		R37	1
15	062-639	RESISTOR, 3.01K, 1%, 1/4 W		R17,26,49	3
16	062-986	RESISTOR, 12.1K, 1%, 1/4 W		R27	1
17	066-668	RESISTOR, 4.7K, 5%, 1/4 W		R5	1
18	066-842	RESISTOR, 5.1K 5%, 1/4 W		R18,38,39	3
19	066-711	RESISTOR, 7.5K, 5%, 1/4 W		R45	1
20	066-736	RESISTOR, 9.53K, 1%, 1/4 W		R44	1
21	066-830	RESISTOR, 10K, 5%, 1/4 W		R1,2,9,29	4
22	062-983	RESISTOR, 10K, 1%, 1/4 W		R42,48	2
23	066-670	RESISTOR, 9.1K, 5%, 1/4 W		R47	1
24	066-873	RESISTOR, 20K, 5%, 1/4 W		R15	1
25	066-857	RESISTOR, 91K, 5%, 1/4 W		R21	1
26	066-849	RESISTOR, 100K, 5%, 1/4 W		R4,34,40	3
27	076-358	RESISTOR, 165K, 1%, 1/4 W		R41	1
28	076-054	RESISTOR, 430K, 5%, 1/4 W		R8	1
29	076-181	RESISTOR, 953K, 1%, 1/4 W		R43	1
30	066-673	RESISTOR, 1M, 5%, 1/4 W		R10	1

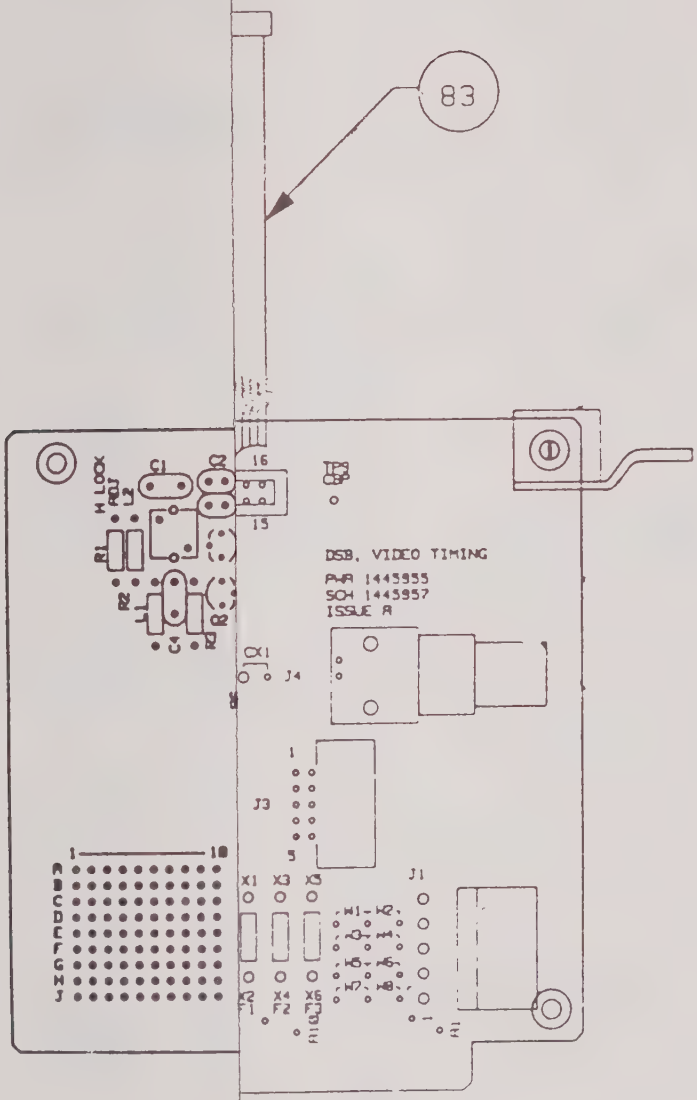
AMPEX CORPORATION REDWOOD CITY, CALIFORNIA	LIST OF MATERIALS	LM- 1445955-02 SHEET 1 OF 2 PAGE 2 OF 3	B

ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
31	066-827	RESISTOR, 3.9K, 5%, 1/4 W		R14	1
32	.....	RESISTOR, SELECT		R7	1
33	066-666	RESISTOR, 2.7K, 5%, 1/4 W		R30	1
34	066-669	RESISTOR, 8.2K, 5%, 1/4 W		R35	1
35	058-567	RESISTOR VAR., 2K, SIDE ADJ.		R18	1
36	039-152	RESISTOR NET., 2K, 16 PIN DIP		A1	1
37	039-267	RESISTOR NET., 5.6K 8 PIN SIP		A2	1
38	064-219	CAPACITOR, 100pF, 100V, 5% Cer		C52	1
39	064-205	CAPACITOR, 8.2pF, 100V, 5%, Cer		C35,50	2
40	064-214	CAPACITOR, 56pF , 100V, 5%, Cer		C23	1
41	064-206	CAPACITOR, 10pF, 100V, 5%, Cer.		C33	1
42	064-216	CAPACITOR, 82pF, 100V, 5%, Cer.		C28	1
43	064-218	CAPACITOR, 120pF, 100V, 5%, Cer		C31	1
44	064-219	CAPACITOR, 150pF, 100V, 5%, Cer		C19,51	2
45	064-220	CAPACITOR, 220pF, 100V, 5%, Cer		C2,27,29	3
46	064-227	CAPACITOR, 1000pF,100V. 5%, Cer		C3,15	2
47	064-230	CAPACITOR, 2200pF,100V, 5%, Cer		C14	1
48	064-898	CAPACITOR, .1uF, 100V, 5%, Cer.		C1,4-13,16-18, 22,26,32,34,36-38,41,42,44,46, 48	26
49					
50	063-578	CAPACITOR, 22uF, ALUM.		C39,40,43,45,47 49	6
51	037-954	CAPACITOR,22uF,15V, TANT		C25	1
52	.....	CAPACITOR, SELECT		C20,21,30	3
53	067-221	CAPACITOR, 15uF, 20V TANT		C24	1
54					
55	003-404	IC., 74HC08	* 1	U5	1
56	003-146	IC., 74HC74	* 1	U8	A/R
57	003-665	IC., 74HC221	* 1	U6	1
58	003-667	IC., 74HC4046	* 1	U1	1
59	003-669	IC., 74HC4049	* 1	U3	1
60	003-670	IC., 74HC4050	* 1	U4,9	2
61	004-117	IC., SAA1043N	* 1	U2	1
62	587-322	IC., CD4049	* 1	U10	1
63	589-915	IC., CA3086		U7	1
64	590-102	IC., NE5532		U11	1
65	587-771	IC., LM78L05		U12	1
66					
67	581-105	DIODE, 1N4148		CR2-7	6
68	581-735	DIODE, MV2109		CR1	1
69					
70	580-647	TRANSISTOR, NPN, 2N3904		Q1,3,5	3
71	580-098	TRANSISTOR, PNP, 2N3906		Q2	1
72	051-770	FERRITE FILTER		FL1-6	6
73					
74	581-620	LED, DISPLAY, YELLOW		DS1	1
75	051-813	INDUCTOR, 22uH		L1	1
76	1374388-AE	INDUCTOR VAR., 4.7uH		L2	1
77					
78	135-994	CONNECTOR, RT ANGLE, 5 PIN		J1	A/R

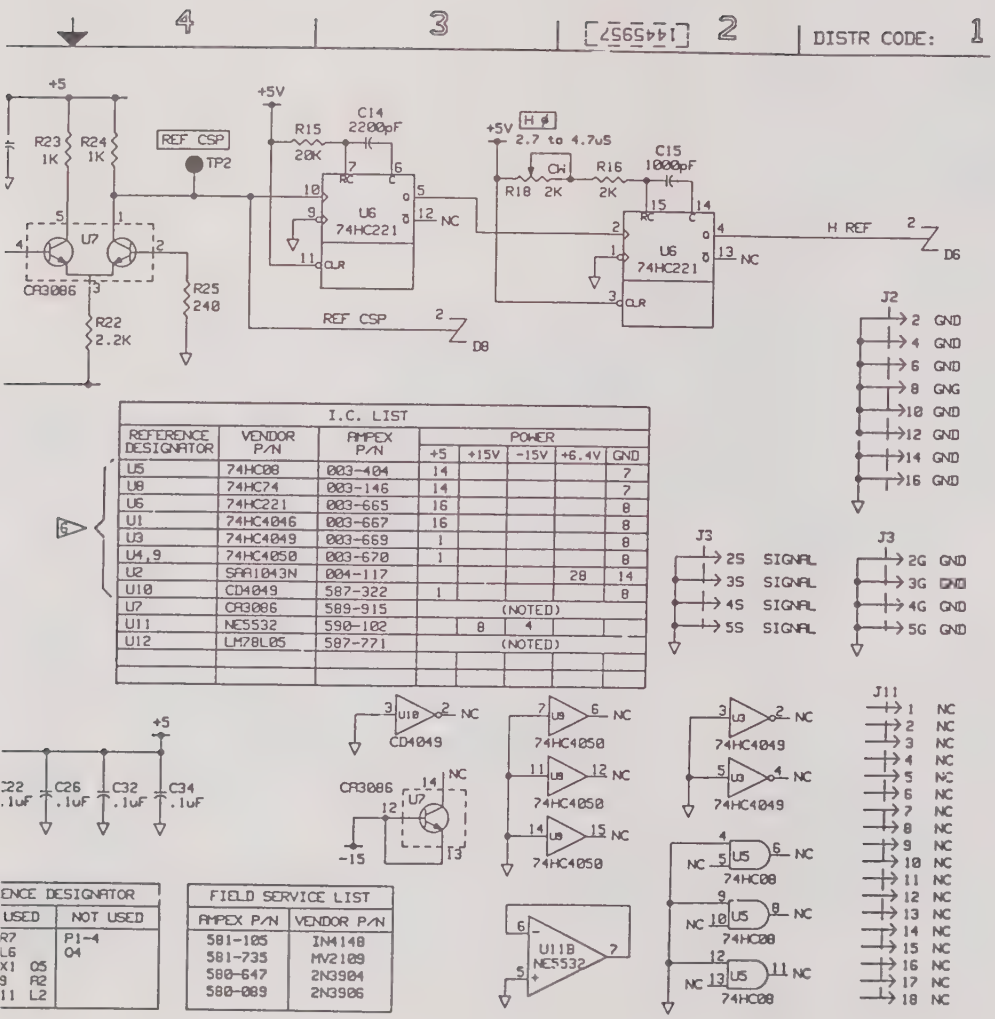
AMPEX CORPORATION REDWOOD CITY, CALIFORNIA	LIST OF MATERIALS	LM- 1445955-02 SHEET 1 OF 2 PAGE 3 OF 3	B

ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
79	135-117	CONNECTOR, RT ANGLE, 10 PIN		J3	1
80	1442853-AB	CONNECTOR, 4 PIN		J5-9	5
81	602-064	JUMPER, 2 POS.		P5-9	5
82	140-692	COAX, BNC, RT ANGLE		J4	1
83	1443488-01	CABLE ASSEMBLY		J2	1
84	187-259	TEST POINT		TP1-10	10
85	614-971	WIRE, 24 AWG, INSULATED		W1,3,5,7	4
86					
87					
88	173-734	TERMINAL, BUFURCATED SWAGE		X1-6	6
89	070-443	FUSE, 5 AMP		F1-3	3
90	1430883-01	BRACKET, MOUNTING			1
91	204-098	SCREW PPH M3 X 8mm			1
92	204-147	LOCKWASHER, INT. M3			1

* 1 STATIC SENSITIVE: REQUIRES SPECIAL HANDLING.
* 2 REWORK 1445956-01 TO -02
REIDENTIFY AS 1445956-02 A/W B



Assembly No. 1445955-02B.
Video Timing PWA



I.C. LIST

REFERENCE DESIGNATOR	VENDOR P/N	AMPEX P/N	POWER				
			+5	+15V	-15V	+6.4V	GND
U5	74HC00	003-404	14				7
U8	74HC74	003-146	14				7
U6	74HC221	003-665	16				8
U1	74HC4046	003-667	16				8
U3	74HC4049	003-669	1				8
U4,9	74HC4050	003-670	1				8
U2	SAA1043N	004-117				28	14
U10	CD4049	587-322	1				8
U7	CR3086	589-915	(NOTED)				
U11	NE5532	590-102		8	4		
U12	LM78L05	587-771	(NOTED)				

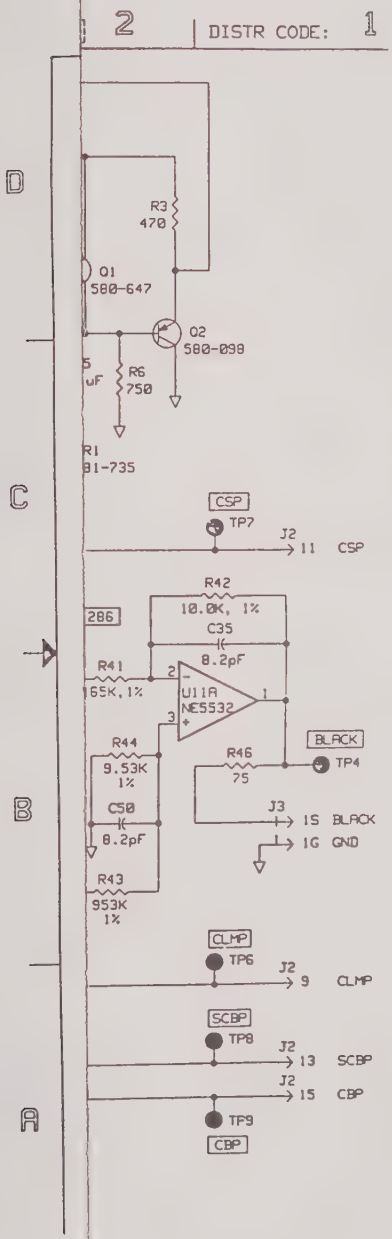
ENCE DESIGNATOR

USED	NOT USED
R7	P1-4
L6	Q4
X1 Q5	
9 R2	
11 L2	

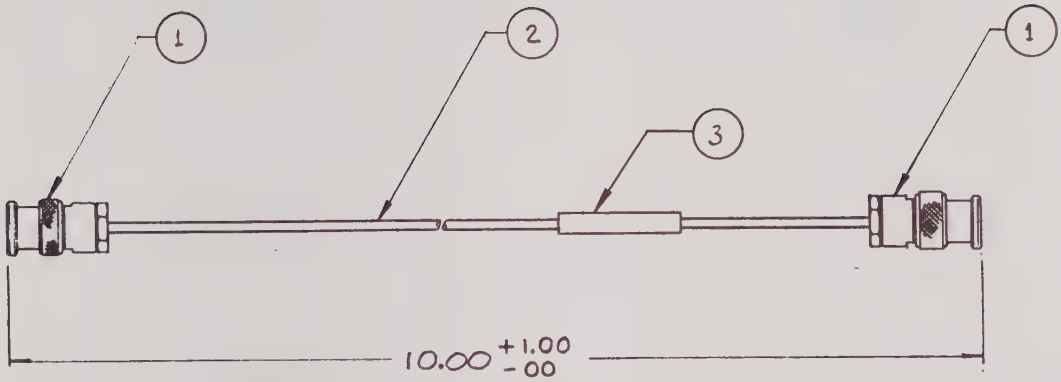
FIELD SERVICE LIST

AMPEX P/N	VENDOR P/N
581-105	IN4148
581-735	MV2109
580-647	2N3904
580-089	2N3906

Schematic No. 1445957B.
Video Timing PWA
(Sheet 1 of 2)

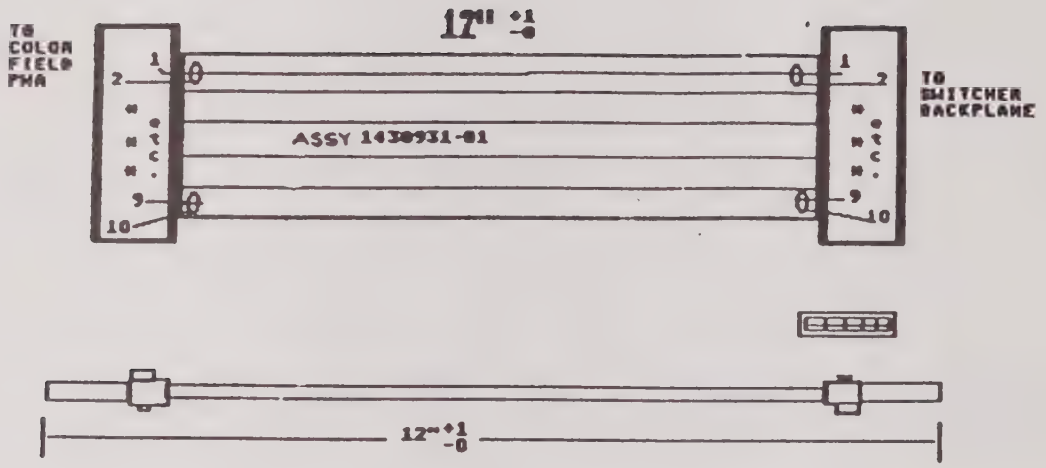


Schematic No. 1445957B.
Video Timing PWA
(Sheet 2 of 2)



AR	3	202-066	LABEL	
AR	2	616-569	CABLE, COAXIAL	
2	1	140-536	CONNECTOR, PLUG, RF, COAX PN, BNC	
01	ITEM NO.	PART NUMBER	DESCRIPTION	

Assembly No. 1431587-01B. Buffer Reference Cable



ITEM	PART NO.	DESCRIPTION	REF.	QUAN.
1	536-114	COAXIAL RIBBON CABLE 3 COND. MASS TERM		AR
2	177-312	RECEPTACLE CONNECTOR 3 COND COAX KIT		2
3	202-066	LABEL		AR

Assembly No. 1430931-01A. Color Field/Switcher Cable

ITEM NO.	PART NUMBER		DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER -01
1	1430331-01		COLOR FIELD-SWITCHER CABLE ASSEMBLY		1
2	1430984-01		OVERLAY, COMPOSITE SWR I/O PANEL		1

LM-1431633-

ITEM NO.	PART NUMBER	D E S C R I P T I O N	NOTE	REFERENCE DESIGNATOR	QTY
	*	indicates a NOTE see last page of List Of Materials			
1					
2	1443402-01	SCHEMATIC			REF
3	066-938	RESISTOR, 47 OHMS, 5%, 1/4 W		R222	1
4	076-026	RESISTOR, 3.9 OHMS, 5%, 1/4 W		R10,11	2
5	076-045	RESISTOR, 75 OHMS, 1%, 1/4 W		R199,200	2
6	066-812	RESISTOR, 100 OHMS, 5%, 1/4 W		R220,260	2
7	062-847	RESISTOR, 100 OHMS, 1%, 1/4 W		R15,95-97, 100,101,104, 105,107	9
8					
9	066-663	RESISTOR, 220 OHMS, 5%, 1/4 W		R14,113,126	3
10	066-859	RESISTOR, 240 OHMS, 5%, 1/4 W		R167,177,185, 193,207,212, 229,237,245, 246,254,255	12
11	066-815	RESISTOR, 300 OHMS, 5%, 1/4 W		R8,9,17,25,27, 35,37,45,47, 53,55,61,63, 69,71,77,79, 85,87,94,99, 103,106,110, 114,123,124, 125,136,154, 157,165,174, 183,190,198, 202,206,211, 216	40
12	066-818	RESISTOR, 470 OHMS, 5%, 1/4 W		R28,30,38,48,	25

AMPEX CORPORATION REDWOOD CITY, CALIFORNIA	LIST OF MATERIALS	LM- 1443400-01 SHEET 1 OF 2 PAGE 2 OF 7	A

ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
				56,64,72,80,88, 120,121,137, 140,143,146, 150,170,176, 184,192,219, 231,239,248,258	
13	066-820	RESISTOR, 750 OHMS, 5%, 1/4 W		R152	1
14	066-665	RESISTOR, 1K, 5%, 1/4W		R116,117,164, 169,179,187,195	7
15					
16	066-838	RESISTOR, 330 OHMS, 5%, 1/4W		R13	1
17					
18	066-826	RESISTOR, 2K, 5%, 1/4 W		R132,228,236, 244,253,264, 267	7
19	066-821	RESISTOR, 820 OHMS, 5%, 1/4W		R115	1
20					
21	066-689	RESISTOR, 2.2K, 5%, 1/4 W		R221	1
22	066-928	RESISTOR, 2.4K, 5%, 1/4 W		R111,262,265	3
23	066-666	RESISTOR, 2.7K, 5%, 1/4 W		R12,16,26,36,46, 54,62,70,78,86, 93,98,102, 155,166,175, 182,191,223	19
24	066-667	RESISTOR, 3K, 5%, 1/4 W		R261,268	2
25	062-639	RESISTOR, 3.01K, 1%, 1/4 W		R133	1
26	066-863	RESISTOR, 3.6K, 5%, 1/4 W		R129	1
27	066-824	RESISTOR, 1.5K, 5%, 1/4 W		R158,159,171	3
28	066-078	RESISTOR, 3.24K, 1%, 1/4 W		R162	1
29	066-828	RESISTOR, 4.3K, 5%, 1/4 W		R29,172,180, 188,196	5
30	062-968	RESISTOR, 4.99K, 1%, 1/4 W		R122,161,163, 269	4
31	066-842	RESISTOR, 5.1K, 5%, 1/4 W		R34,44,52,60,68, 76,84,92,119, 203,208,213,217	13
32					
33	062-954	RESISTOR, 3.16K, 1%, 1/4 W		R134	1
34	066-453	RESISTOR, 6.49K, 1%, 1/4 W		R109,160	2
35	062-976	RESISTOR, 7.15K, 1%, 1/4 W		R5,131	2
36	066-711	RESISTOR, 7.5K, 5%, 1/4 W		R21	1
37	066-822	RESISTOR, 910 OHMS, 5%, 1/4 W		R130	1
38	066-513	RESISTOR, 8.66K, 1%, 1/4 W		R225	1
39	066-670	RESISTOR, 9.1K, 5%, 1/4 W		R156	1
40	066-830	RESISTOR, 10K, 5%, 1/4 W		R1,24,32,42,50,	17

ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
				58,66,74,82,90, 112,201,205, 210,215,263, 266	
41	062-983	RESISTOR, 10.0K, 1%, 1/4 W		R2,4,18,19,108	5
42	079-974	RESISTOR, 10K, 0.1%, 1/8 W	* 1	R23,270	1
43	066-831	RESISTOR, 11K, 5%, 1/4 W		R153	1
44	192-654	RESISTOR, 12.1K, 0.1%, 1/8 W	* 1	R271	1
45	066-856	RESISTOR, 15K, 5%, 1/4 W		R127	1
46	062-998	RESISTOR, 18.7K, 1%, 1/4 W		R224	1
47	066-712	RESISTOR, 22K, 5%, 1/4 W		R31,41,49,57,65, 73,81,89,168, 178,186,194	12
48	066-160	RESISTOR, 6.04K, 1%, 1/4 W		R3	1
49					
50	066-717	RESISTOR, 47K, 5%, 1/4 W		R232,240,249,259	4
51					
52	066-847	RESISTOR, 33K, 5%, 1/4 W		R138,141,144, 147,151	5
53	066-183	RESISTOR, 60.4K, 1%, 1/4 W		R20	1
54	066-857	RESISTOR, 91K, 5%, 1/4 W		R227,235,243,252	4
55					
56	066-060	RESISTOR, 26.1K, 1%, 1/4 W		R7	1
57	066-714	RESISTOR, 35.7K, 1%, 1/4 W		R6	1
58	066-012	RESISTOR, 40.2K, 1%, 1/4 W		R135	1
59	066-652	RESISTOR, 470K, 5%, 1/4 W		R33,43,51,59,67, 75,83,91,118, 204,209,214, 218	13
60	192-651	RESISTOR, 2.10K, 0.1%, 1/8W		R22	1
61					
62	075-643	RESISTOR VAR., 200 , SIDE ADJ.		R230,238,247,256	4
63	075-434	RESISTOR VAR., 500 , SIDE ADJ.		R173,181,189,197	4
64					
65					
66	075-573	RESISTOR VAR., 20K, SIDE ADJ.		R139,142,145, 148,149	5
67	075-644	RESISTOR VAR., 50K, SIDE ADJ.		R226,233,234, 241,242,250, 251,257	8
68					
69	039-399	RESISTOR NETWORK, MIXED VALUE		A31	1

AMPEX CORPORATION REDWOOD CITY, CALIFORNIA	LIST OF MATERIALS	LM- 1443400-01 SHEET 1 OF 2 PAGE 4 OF 7	A

ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
		8 PIN SIP			
70					
71					
72					
73	.....	CAPACITOR, SEL		C11,12,21,22	4
74					
75	164-554	CAPACITOR, 3.3pF +/- .25pF 100V, CERAMIC		C110,137	2
76	164-555	CAPACITOR, 4.7pF +/- .5pF 100V, CERAMIC		C154,161,169,177 183,191,198,203	8
77	164-556	CAPACITOR, 5.6pF +/- .5pF 100V, CERAMIC		C105,138,142,209 141	5
78	064-778	CAPACITOR, 6.8pF +/- .5pF 100V, CERAMIC		C9,212	2
79					
80	064-707	CAPACITOR, 15pF, +/- 5% 100V, CERAMIC		C153,160,167,175	4
81	064-671	CAPACITOR, 22pF, +/- 5% 100V, CERAMIC		C211	1
82	064-665	CAPACITOR, 56pF, +/- 5% 100V, CERAMIC		C217	1
83					
84	164-551	CAPACITOR, 68pF, +/- 5% 100V, CERAMIC		C100-103	4
85	164-552	CAPACITOR, 100pF, +/- 5% 100V, CERAMIC		C33,216	2
86					
87	064-703	CAPACITOR, 560pF, +/- 5% 100V, CERAMIC		C106	1
88	064-704	CAPACITOR, 1000pF, +/- 5% 50V, CERAMIC		C39,46,53,59,66, 72,78,84,150, 156,164,173	12
89	064-253	CAPACITOR, 1500pF, +/- 10% 100V, CERAMIC		C119,123,125, 127,129,131,140	7
90	064-652	CAPACITOR, .01uF, +/- 20% 50V, CERAMIC		C108	1
91	064-653	CAPACITOR, .1uF, +/- 20% 50V, CERAMIC		C1,7,8,10,13-17, 19,20,23-25, 27-32,34,35,38, 40-42,45,48,49, 52,54,55,58,60, 62,65,67,68,71, 73,74,77,79,80, 83,85-99,104, 107,109,111-	123

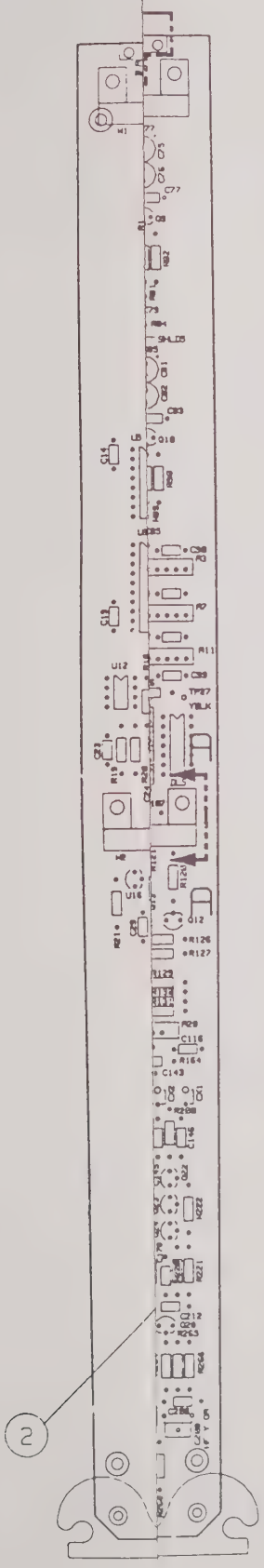
AMPEX CORPORATION REDWOOD CITY, CALIFORNIA	LIST OF MATERIALS	LM- 1443400-01 SHEET 1 OF 2 PAGE 5 OF 7	A

ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
				113,116,117, 120-122,124, 126,128,130, 132-136,139, 143,144,147, 149,151,152,155, 158,159,162,165, 166,168,170, 172,174,176,180, 181,182,185- 190,193-197, 200-202,205- 207,210,213,214 215,218	
92	063-578	CAPACITOR, 22uF, +/- 20% 25V, ALUM.		C2,3,4,179	4
93	037-954	CAPACITOR, 22uF, +/- 20% 15V, TANT.		C36,37,43,44,50, 51,56,57,63,64, 69,70,75,76,81, 82	16
94	037-963	CAPACITOR, 33uF, +/- 20% 10V, TANT.		C148,157,163,171	4
95	.....	CAPACITOR, A/R		C118,145,146,178	4
96	038-350	CAPACITOR VAR. 2-10pF SIDE ADJ.		C184,192,199, 204,208	5
97					
98	067-221	CAPACITOR, 15uF, +/- 20% 20V, TANT.		C5,6,61	3
99	064-712	CAPACITOR, 27pF, +/- 5% CERAMIC		C26	1
100	002-093	IC, 74HC00		U15	1
101	003-146	IC, 74HC74		U14	1
102	003-637	IC, 74HC133	* 1	U19	1
103	003-376	IC, 74HC138		U10	1
104	004-094	IC, 74HC154		U11,18	2
105	003-423	IC, 74HC174		U30	1
106	003-150	IC, 74HC373	* 1	U9	1
107	003-670	IC, 74HC4050		U5-8	4
108	590-054	IC, AD7524		U13	1
109	586-778	IC, CA3054		U44-47	4
110	590-031	IC, CA3094		U20-28,40-43	13
111	587-322	IC, CD4049	* 1	U1	1
112	004-534	IC, DG212	* 1	U31	1
113	001-962	IC, LF398		U32,34-39	7
114	003-142	IC, LF412A		U2,12,17,33	4

ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
115	589-810	IC, LF13202		U29	1
116	581-996	IC, LT1009		U16	1
117					
118	587-440	IC, UA7812		U4	1
119	589-862	IC, UA7912		U3	1
120					
121					
122	013-599	DIODE, 1N4148/1N4531		CR1-18	18
123	580-226	TRANSISTOR, NPN 2N4124	* 2	Q1-10,13-23,28	22
124	580-809	TRANSISTOR, PNP 2N4126	* 2	Q11,12,24-27	6
125	051-770	FERRITE FILTER		FL1-3	3
126	570-511	DELAY LINE, 150nS, BINARY		DL2-5	4
127	1374388-AP	INDUCTOR, VAR., 15uH		L1	1
128	187-259	TEST POINT		TP1-52,54-56	55
129	582-517	HEAT SINK		H1,2	2
130	070-443	FUSE, 5A		F1	1
131	173-734	TERMINAL, BIFURCATED SVAGE		X1,2	2
132	932-035	FERRITE BEAD	* 2	Q3-10,24,V3	19
133	1442853-AB	CONNECTOR, 4 POS.		J5-21	17
134	602-066	JUMPER, 2 POS.		P5-21	A/R
135	582-330	IC SOCKET. 14 PIN		U44-47	4
136	141-129	CONNECTOR, 64 POS. RIGHT ANGLE		J1-4	4
137					
138					
139					
140					
141					
142					
143					
144	530-512	CARD EJECTOR			2
145	1445943-01	CARD STIFFERENER		V1,2	2
146	1445008-01	PVA, DUAL CROSSPOINT, SMA	*1	A1-13	13
147	1445011-01	PVA, VIDEO AMPLIFIER, SMA	*1	A22.27,28	3
148	1445014-01	PVA, ANALOG AND GATE, SMA	*1	A15,16,19,21,23, 26	6
149	1445017-01	PVA, ANALOG OR GATE, SMA	*1	A14,17,18,20,24, 25,29,30	8
150	1445025-01	PVA,VIDEO MIXER, SMA	*1	A32-35	4
151	615-004	WIRE SOLID, BUS 24 AWG		V3	A/R
152	502-551	WASHER, NYLON		J1-4	8

AMPEX CORPORATION REDWOOD CITY, CALIFORNIA	LIST OF MATERIALS	LM- 1443400-01 SHEET 1 OF 2 PAGE 7 OF 7	A

ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
154	CD752	SCREW, METRIC		J1-4,U1,2	A/R
155					
156	CD754	WASHER, METRIC		J1-4,U1,2	A/R
157					
158	CD753	NUT, METRIC		J1-4,U1,2	A/R
159					
160	460-039	RIVET, SWAGE		V1,2	10
		* 1. STATIC SENSITIVE: REQUIRES SPECIAL HANDLING.			
		* 2. USE FERRITE BEAD ON EMITTER AND COLLECTOR LEADS REFERENCED IN ITEM # 132, AND BEAD ON V3.			



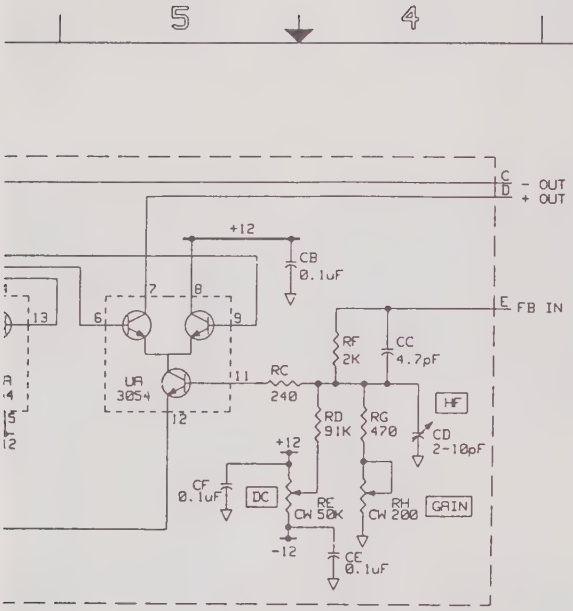
Assembly No. 1443400-01A
Composite Switcher 1 PWA

1443402 2

POWER				
+5	+12	-12	AGND	DGND
3	12	1	4,10	—
—	1	10	5	—
—	10	1	5	—
—	10	2	1	—
—	14	7,12	1,10	—

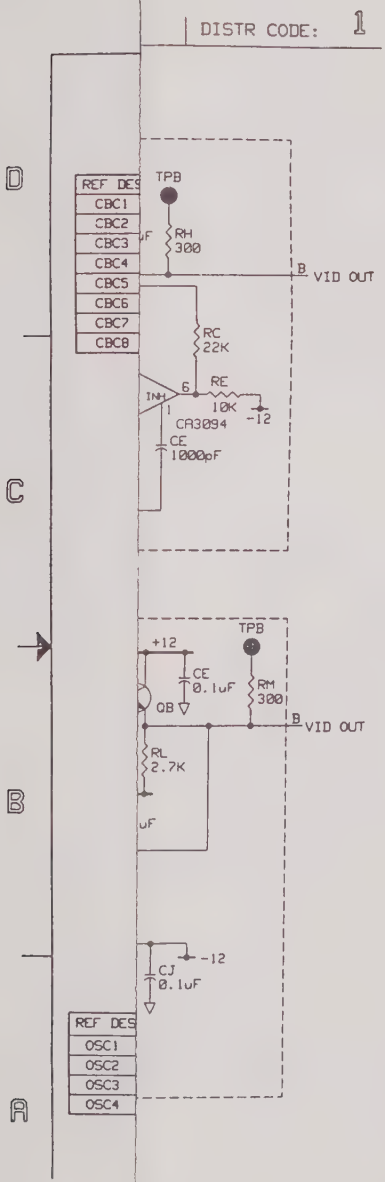
FIELD SERVICE LIST	
AMPEX P/N	VENDOR P/N
580-226	2N4124
580-809	2N4126
013-599	1N4148/1N4531

Schematic No. 1443402B.
Composite Switcher 1 PWA
(Sheet 1 of 10)

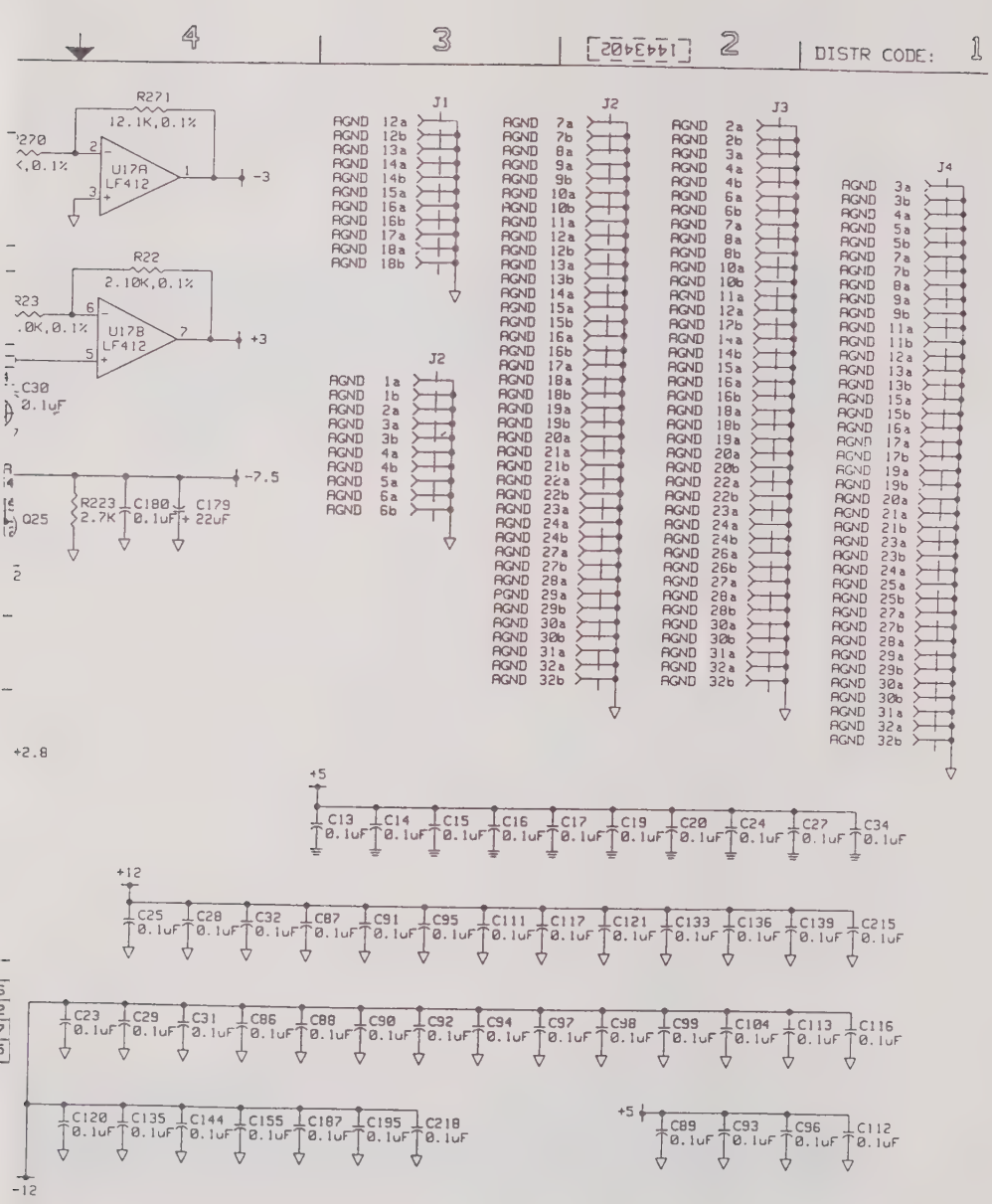


	CA	CB	CC	CD	CE	CF
3	200	197	198	199	202	194
2	193	190	191	192	195	186
7	185	182	183	184	187	214
5	205	210	203	204	206	201

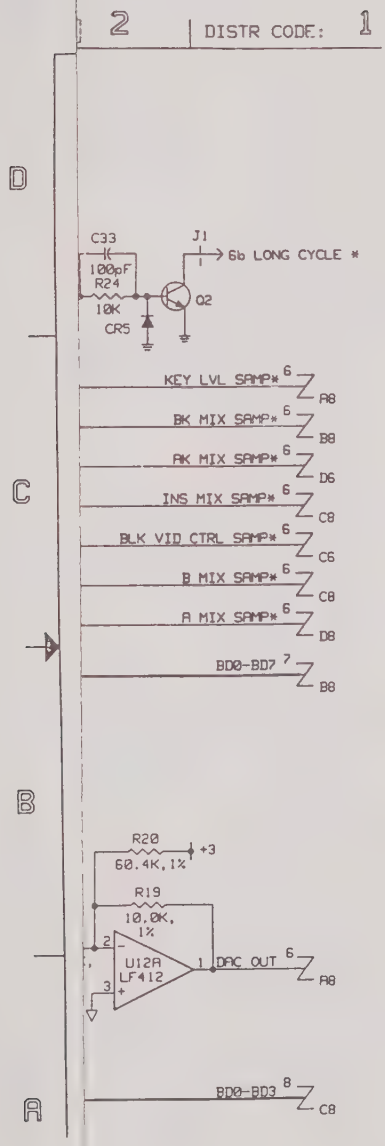
Schematic No. 1443402B.
Composite Switcher 1 PWA
(Sheet 2 of 10)



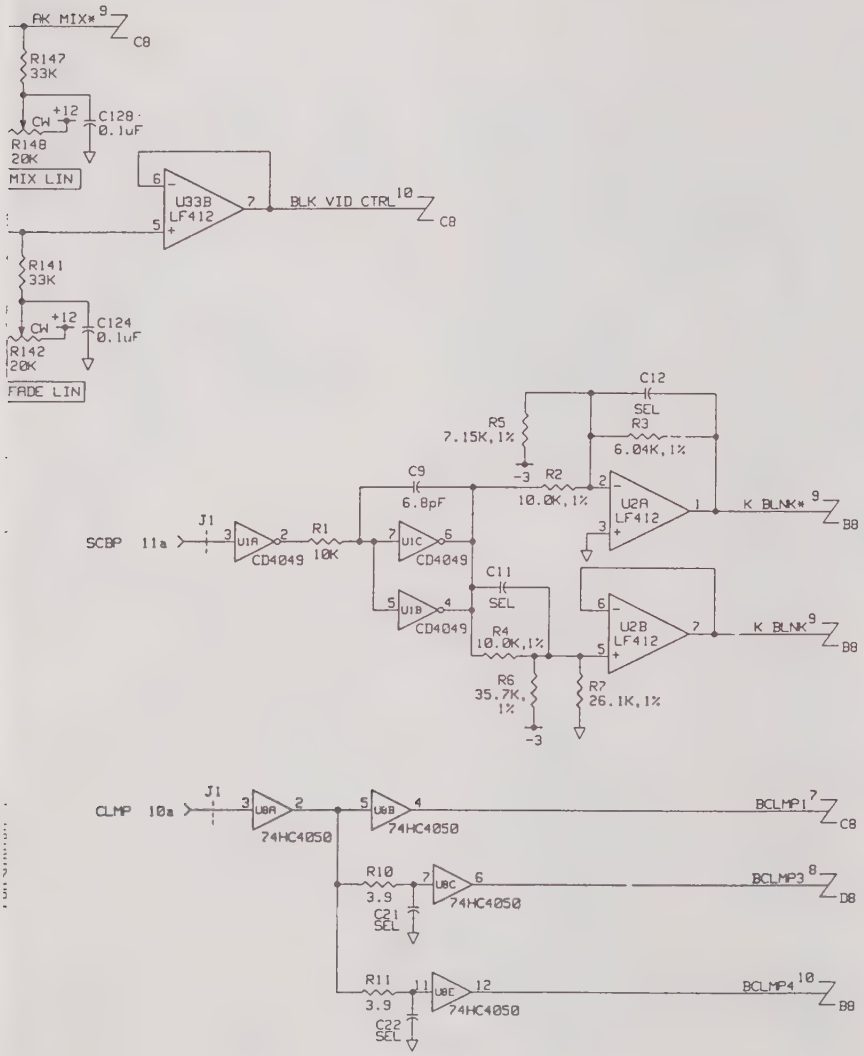
Schematic No. 1443402B.
Composite Switcher 1 PWA
(Sheet 3 of 10)



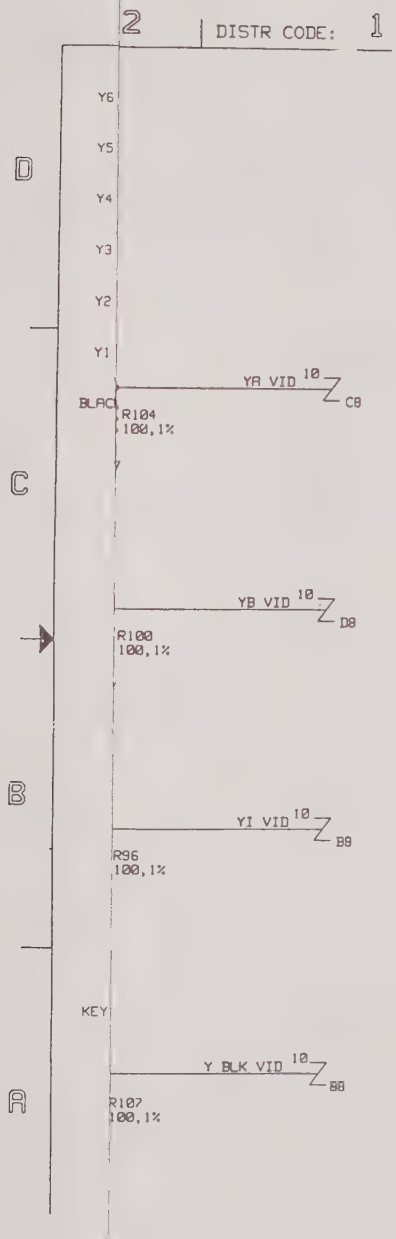
Schematic No. 1443402B.
Composite Switcher 1 PWA
(Sheet 4 of 10)



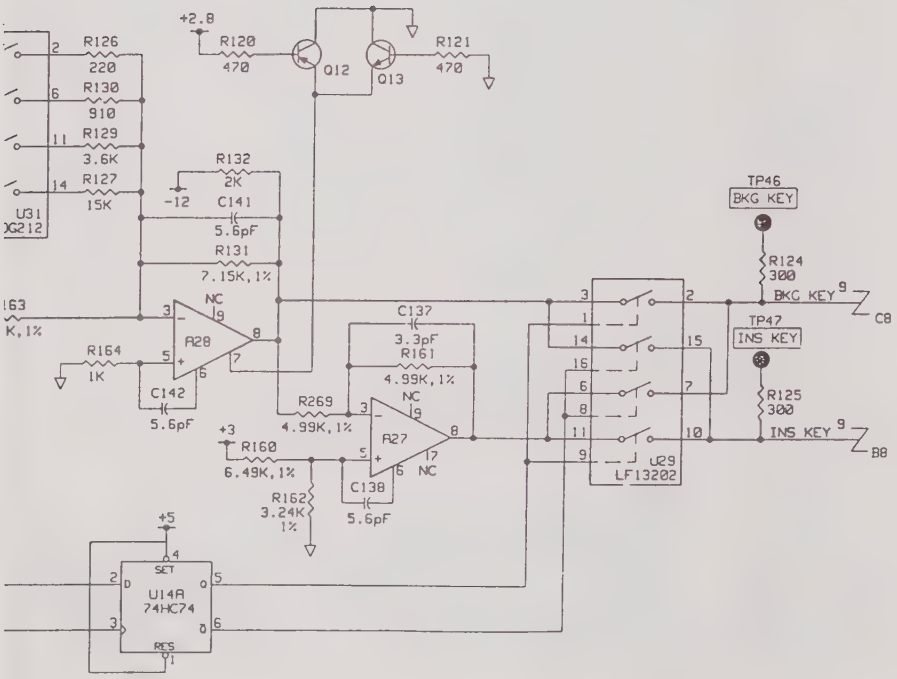
Schematic No. 1443402B.
Composite Switcher 1 PWA
(Sheet 5 of 10)



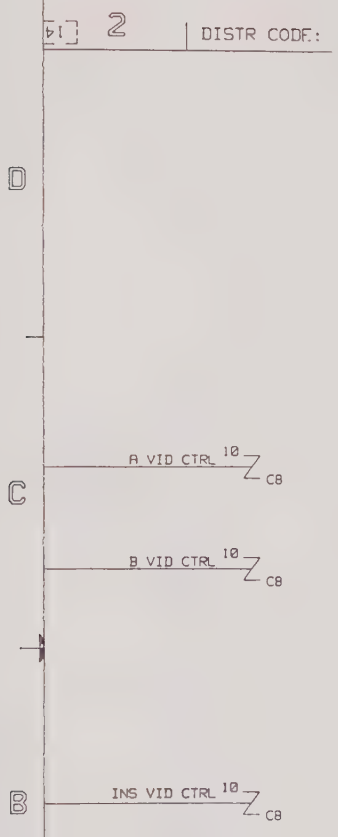
Schematic No. 1443402B.
Composite Switcher 1 PWA
(Sheet 6 of 10)



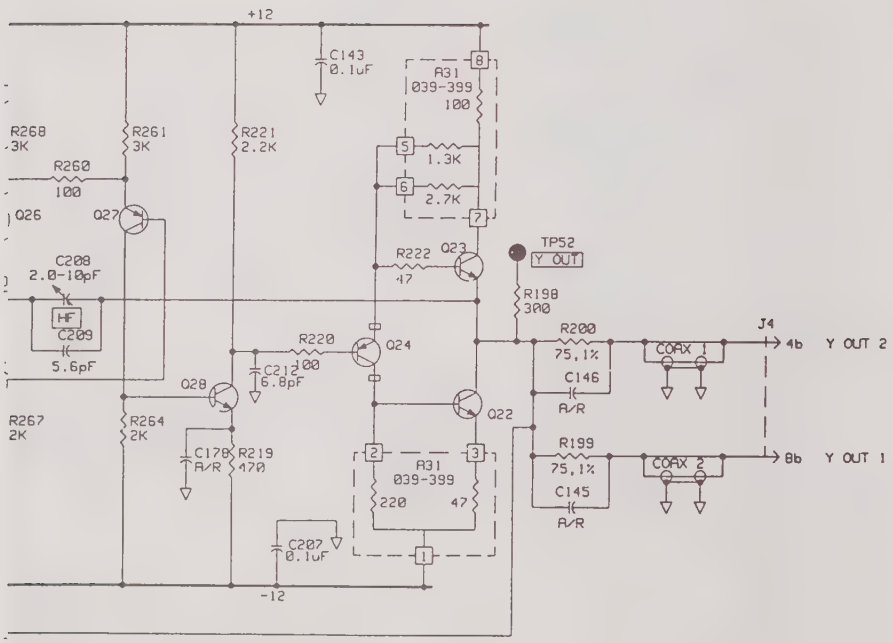
Schematic No. 1443402B.
Composite Switcher 1 PWA
(Sheet 7 of 10)



Schematic No. 1443402B.
Composite Switcher 1 PWA
(Sheet 8 of 10)



Schematic No. 1443402B.
Composite Switcher 1 PWA
(Sheet 9 of 10)



Schematic No. 1443402B.
Composite Switcher 1 PWA
(Sheet 10 of 10)

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY
		THIS ASSEMBLY CONTAINS STATIC SENSITIVE DEVICES.		
1				
2	1443384-X1	SCH,		REF
3	062-930	RESISTOR, 1.24K OHMS, 1%, 1/4 WATT	R73	1
4	066-715	RESISTOR, 1.2K OHMS, 5%, 1/4 WATT	R125,129,131	3
5	062-626	RESISTOR, 1.40K OHMS, 1%, 1/4 WATT	R42,59,61	3
6	062-932	RESISTOR, 1.50K, 1%, 1/4 WATT	R15,17	2
7	062-933	RESISTOR, 1.54K OHMS, 1%, 1/4 WATT	R72	1
8	066-824	RESISTOR, 1.5K OHMS, 5%, 1/4 WATT	R9,28,76,80,85	5
9	076-824	RESISTOR, 1.8 OHMS, 5%, 1/4 WATT	R56	1
10	076-157	RESISTOR, 1.96K OHMS, 1%, 1/4 WATT	R137	1
11	062-983	RESISTOR, 10.0K OHMS, 1%, 1/4 WATT	R65	1
12	062-847	RESISTOR, 100 OHMS, 1%, 1/4 WATT	R151,153	2
13	066-849	RESISTOR, 100K OHMS, 5%, 1/4 WATT	R24,26,32,121	4
14	066-830	RESISTOR, 10K OHMS, 5%, 1/4 WATT	R5,11,23,25,90,122, 127,150,152,154	10
15	066-752	RESISTOR, 11.8K OHMS, 1%, 1/4 WATT	R37,39	2
16	062-986	RESISTOR, 12.1K OHMS, 1%, 1/4 WATT	R2	1
17	066-661	RESISTOR, 120 OHMS, 5%, 1/4 WATT	R120	1
18	066-864	RESISTOR, 13K OHMS, 5%, 1/4 WATT	R109	1
19	062-862	RESISTOR, 143 OHMS, 1%, 1/4 WATT	R79,84	2
20	066-813	RESISTOR, 150 OHMS, 5%, 1/4 WATT	R13	1
21	066-974	RESISTOR, 150K OHMS, 5%, 1/4 WATT	R96	1
22	076-011	RESISTOR, 180K OHMS, 5%, 1/4 WATT	R55	1
23	066-665	RESISTOR, 1K OHMS, 5%, 1/4 WATT	R75,111-112,118,145	5
24	066-673	RESISTOR, 1M OHMS, 5%, 1/4 WATT	R91	1
25	062-643	RESISTOR, 2.00K OHMS, 1%, 1/4 WATT	R82,139	2
26	066-689	RESISTOR, 2.2K OHMS, 5%, 1/4 WATT	R98,144	2
27	062-947	RESISTOR, 2.49K OHMS, 1%, 1/4 WATT	R33,35,62,87,101, 104,133	7
28	066-666	RESISTOR, 2.7K OHMS, 5%, 1/4 WATT	R34,36,130,132,140	5
29	066-662	RESISTOR, 200 OHMS, 5%, 1/4 WATT	R6,29-30	3

AMPEX CORPORATION REDWOOD CITY, CALIFORNIA	LIST OF MATERIALS	LM- 1443382-X1 SHEET 1 OF 2 PAGE 2 OF 4	1

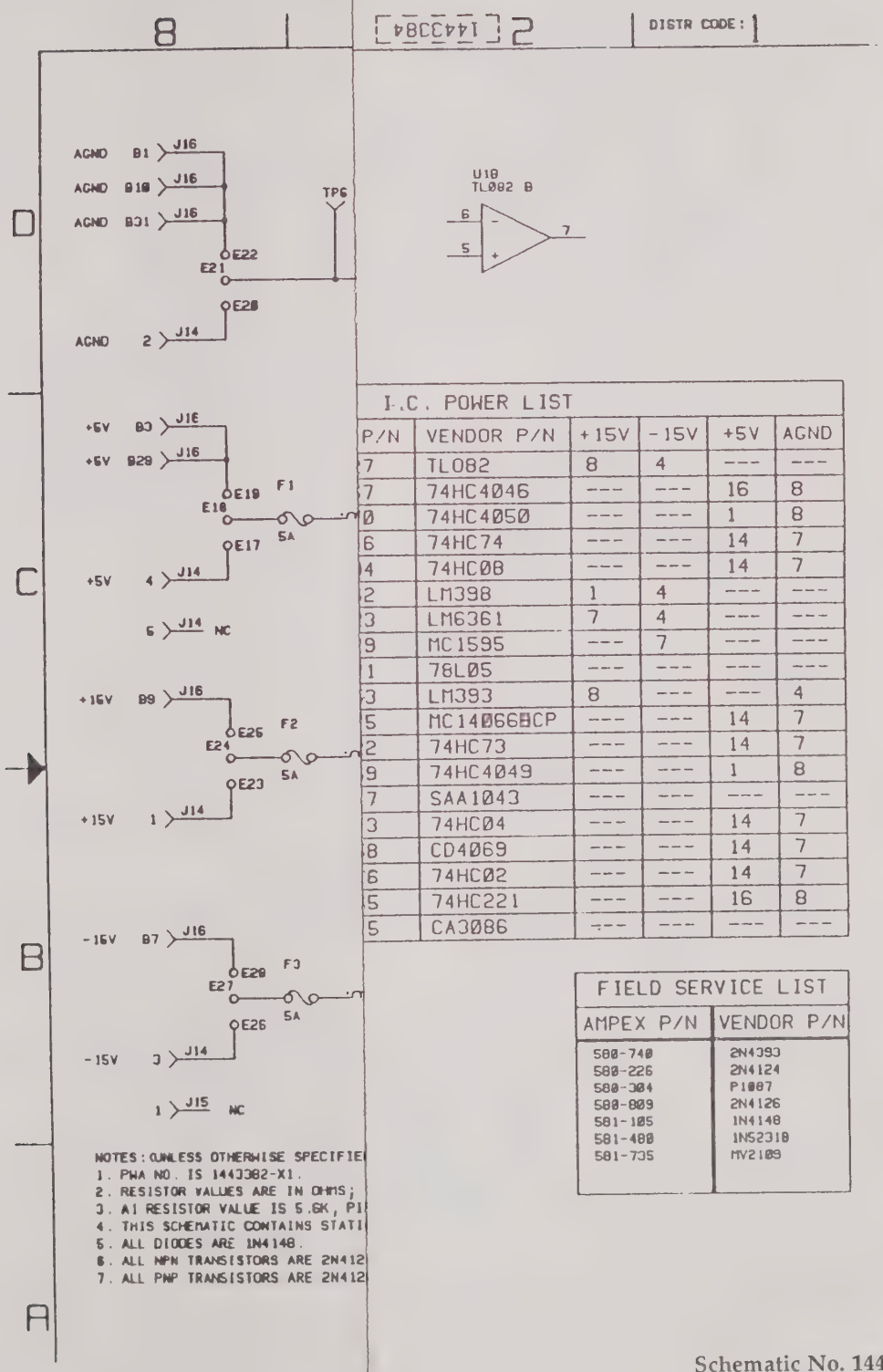
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY
30	066-873	RESISTOR, 20K OHMS, 5%, 1/4 WATT	R141	1
31	066-663	RESISTOR, 220 OHMS, 5%, 1/4 WATT	R63-64	2
32	066-859	RESISTOR, 240 OHMS, 5%, 1/4 WATT	R142-143	2
33	066-007	RESISTOR, 27.4K OHMS, 1%, 1/4 WATT	R22	1
34	066-866	RESISTOR, 27K OHMS, 5%, 1/4 WATT	R110	1
35	066-826	RESISTOR, 2K OHMS, 5%, 1/4 WATT	R100,114,123,126,149	5
36	062-639	RESISTOR, 3.01K OHMS, 1%, 1/4 WATT	R3,45,83	3
37	062-640	RESISTOR, 3.09K OHMS, 1%, 1/4 WATT	R40	1
38	062-956	RESISTOR, 3.40K OHMS, 1%, 1/4 WATT	R58,60	2
39	066-863	RESISTOR, 3.6K OHMS, 5%, 1/4 WATT	R115	1
40	062-961	RESISTOR, 3.92K OHMS, 1%, 1/4 WATT	R41,44	2
41	066-827	RESISTOR, 3.9K OHMS, 5%, 1/4 WATT	R50-51,74,89,92	5
42	066-815	RESISTOR, 300 OHMS, 5%, 1/4 WATT	R8,31,66,68,106,135	6
43	066-846	RESISTOR, 30K OHMS, 5%, 1/4 WATT	R116	1
44	062-887	RESISTOR, 332 OHMS, 1%, 1/4 WATT	R78,86	2
45	066-847	RESISTOR, 33K OHMS, 5%, 1/4 WATT	R4	1
46	066-667	RESISTOR, 3K OHMS, 5%, 1/4 WATT	R95,102,108,117	4
47	066-435	RESISTOR, 4.42K OHMS, 1%, 1/4 WATT	R136	1
48	066-668	RESISTOR, 4.7K OHMS, 5%, 1/4 WATT	R21	1
49	062-968	RESISTOR, 4.99K OHMS, 1%, 1/4 WATT	R105	1
50	066-012	RESISTOR, 40.2K OHMS, 1%, 1/4 WATT	R134	1
51	076-054	RESISTOR, 430K OHMS, 5%, 1/4 WATT	R1	1
52	066-818	RESISTOR, 470 OHMS, 5%, 1/4 WATT	R47	1
53	066-034	RESISTOR, 475K OHMS, 1%, 1/4 WATT	R138	1
54	066-842	RESISTOR, 5.1K OHMS, 5%, 1/4 WATT	R48-49,52-53,128,148	6
55	066-718	RESISTOR, 5.6K OHMS, 5%, 1/4 WATT	R70,77,81	3
56	066-664	RESISTOR, 510 OHMS, 5%, 1/4 WATT	R43,103	2
57	066-833	RESISTOR, 56K OHMS, 5%, 1/4 WATT	R94	1
58	066-160	RESISTOR, 6.04K OHMS, 1%, 1/4 WATT	R88	1
59	062-974	RESISTOR, 6.19K OHMS, 1%, 1/4 WATT	R46	1
60	066-843	RESISTOR, 6.2K OHMS, 5%, 1/4 WATT	R12	1
61	066-829	RESISTOR, 6.8K OHMS, 5%, 1/4 WATT	R57,97,99	3
62	066-711	RESISTOR, 7.5K OHMS, 5%, 1/4 WATT	R124	1
63	062-836	RESISTOR, 75.0 OHMS, 1%, 1/4 WATT	R67	1
64	066-820	RESISTOR, 750 OHMS, 5%, 1/4 WATT	R71,119	2
65	066-958	RESISTOR, 75K OHMS, 5%, 1/4 WATT	R93	1
66	062-917	RESISTOR, 768 OHMS, 1%, 1/4 WATT	R38	1
67	066-669	RESISTOR, 8.2K OHMS, 5%, 1/4 WATT	R113	1
68	066-670	RESISTOR, 9.1K OHMS, 5%, 1/4 WATT	R147	1
69	066-857	RESISTOR, 91K OHMS, 5%, 1/4 WATT	R146	1
70	A/R	RESISTOR, SELECT	R3,27,29-30,54,69,78,107	4
71	075-565	VARIABLE RESISTOR, 1K, SIDE-ADJUST	R14,16	2
72	075-573	VARIABLE RESISTOR, 20K, SIDE-ADJUST	R20	1
73	058-567	VARIABLE RESISTOR, 2K, SIDE ADJUST	R7,10	2
74	075-567	VARIABLE RESISTOR, 2K, SIDE-ADJUST	R19	1
75	075-569	VARIABLE RESISTOR, 5K, SIDE-ADJUST	R18	1
76	064-898	CAPACITOR, 0.1UF, CERAMIC, 20%	C3,5-6,8,14-16,24-25,40,42,44-45,51,54,81,83,85	18
77	064-227	CAPACITOR, 1000PF, CERAMIC, 5%	C12,26,43,63-64,80	6
78	064-217	CAPACITOR, 100PF, CERAMIC, 5%	C28,92	2
79	064-206	CAPACITOR, 10PF, CERAMIC, 5%	C21,53,84	3

AMPEX CORPORATION REDWOOD CITY, CALIFORNIA	LIST OF MATERIALS	LM- 1443382-X1 SHEET 1 OF 2 PAGE 3 OF 4	1

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY
80	064-218	CAPACITOR, 120PF, CERAMIC, 5%	C10	1
81	064-207	CAPACITOR, 12PF, CERAMIC, 5%	C77,88	2
82	064-229	CAPACITOR, 1500PF, CERAMIC, 5%	C74	1
83	069-253	CAPACITOR, 1500PF, POLYPROPYLENE, 5%	C18	1
84	064-219	CAPACITOR, 150PF, CERAMIC, 5%	C7,20,39	3
85	037-893	CAPACITOR, 15UF, TANTALUM, 20%, 20V	C17,32,37,59	4
86	064-209	CAPACITOR, 18PF, CERAMIC, 5%	C67	1
87	064-230	CAPACITOR, 2200PF, MICA, 5%	C48,79	2
88	064-220	CAPACITOR, 220PF, CERAMIC, 5%	C11,23,41,58,61,66,98,101	8
89	037-954	CAPACITOR, 22UF, TANTALUM, 20%, 15V	C71,86,90,97,102,105-106	7
90	064-210	CAPACITOR, 27PF, CERAMIC, 5%	C50	1
91	064-221	CAPACITOR, 330PF, CERAMIC, 5%	C62,65	2
92	064-212	CAPACITOR, 39PF, CERAMIC, 5%	C19	1
93	064-202	CAPACITOR, 4.7PF, CERAMIC, 5%	C68,76	2
94	064-223	CAPACITOR, 470PF, CERAMIC, 5%	C56,73,93	3
95	064-214	CAPACITOR, 56PF, CERAMIC, 5%	C4,49	2
96	064-216	CAPACITOR, 82PF, CERAMIC, 5%	C27	1
97	064-653	CAPACITOR, CERAMIC, 0.1UF, 20%, 50V	C1-2,9,13,31,33-36,38,46-47,52,55,57,60,69-70,72,75,87,89,91,94-96,99-100,103-104,107	31
98	038-341	VARIABLE CAPACITOR, 4-18PF, CERAMIC, TO	C22,82	2
99	002-916	I.C., 74HC02	U21	1
100	003-143	I.C., 74HC04	U17	1
101	003-404	I.C., 74HC08	U5,23	2
102	003-665	I.C., 74HC221	U22,24	2
103	003-667	I.C., 74HC4046	U2,6	2
104	003-669	I.C., 74HC4049	U15	1
105	003-670	I.C., 74HC4050	U3,10	2
106	003-422	I.C., 74HC73	U14	1
107	003-146	I.C., 74HC74	U4,19	2
108	589-915	I.C., CA3086	U25	1
109	587-858	I.C., CD4069	U20	1
110	589-653	I.C., LM393	U12	1
111	001-962	I.C., LM398	U7	1
112	005-923	I.C., LM6361	U8,18	2
113	587-771	I.C., LM78L05	U11	1
114	589-475	I.C., MC14066BCP	U13	1
115	590-179	I.C., MC1595	U9	1
116	004-117	I.C., SAA1043	U16	1
117	589-427	I.C., TL082, DUAL OPAMP	U1	1
118	582-330	SOCKET, 14-PIN DIP	U4-5,9,13-14,17,19-21,23,25	11
119	582-331	SOCKET, 16-PIN DIP	U2-3,6,10,15,22,24	7
120	582-281	SOCKET, 28-PIN DIP	U16	1
121	582-329	SOCKET, 8-PIN DIP	U1,7-8,12,18	5
122	039-152	RESISTOR NETWORK, 2K, 16 PIN DIP	A2	1
123	039-267	RESISTOR NETWORK, 5.6K, 8-PIN SIP	A1	1
124	580-740	TRANSISTOR, 2N4393, NJFET	Q9-10	2
125	580-226	TRANSISTOR, NPN, 2N4124	Q2-8,11-13,15,20-21,25-26	15
126	580-304	TRANSISTOR, P1087, PJFET	Q16-17	2
127	580-809	TRANSISTOR, PNP, 2N4126	Q1,14,18-19	4

AMPEX CORPORATION REDWOOD CITY, CALIFORNIA	LIST OF MATERIALS	LM- 1443382-X1 SHEET 1 OF 2 PAGE 4 OF 4	1

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY
128	581-620	LED, YELLOW, RIGHT-ANGLE	DS1	1
129	051-659	INDUCTOR, 1.2UH	L5,8	2
130	051-813	INDUCTOR, 22UH	L3-4,7	3
131	068-073	INDUCTOR, 6.8UH	L6,9-11	4
132	1374388-AH	VARIABLE INDUCTOR, 4.23-5.17UH, STANDARD	L1-2	2
133	051-770	FERRITE CHOKE	FL1-6	6
134	187-259	TEST POINT	TP1-22	22
135	135-117	CONNECTOR, 10 PIN, RIGHT ANGLE	J8	1
137	135-994	CONNECTOR, 5 PIN, RIGHT ANGLE	J14	1
138	140-692	CONNECTOR, BNC, CIRCUIT MOUNT	J3	1
139	1442853-AB	CONNECTOR, IDC, 4 PIN	J1,4-7,9-13	10
140	017-183	CRYSTAL, 14.302446 MHZ	Y3	1
141	017-161	CRYSTAL, 14.318180 MHZ	Y1	1
142	017-196	CRYSTAL, 17.734475 MHZ	Y2	1
143	070-443	FUSE, 5A	F1-3	3
144	A/R	ENO TYPE SOLDER TERMINAL	E1-28	28
146	581-105	DIODE, 1N4148, SILICON	CR1-2,4-5,7-8,10-17	14
147	581-480	DIODE, 1N5231B, SILICON	CR9	1
149	581-735	VARACTOR, MV2109	CR3,6	2
150	173-734	TERMINAL, BIFURCATED SWAG	X1-6	6
151	1430883-01	BRACKET, MOUNTING		1
152	204-098	SCREW, PPH M3 X 8MM		1
153	204-147	LOCKWASHER, INT. M3		1
154	1443488-01	CABLE ASSEMBLY	J2	1



I.C. POWER LIST

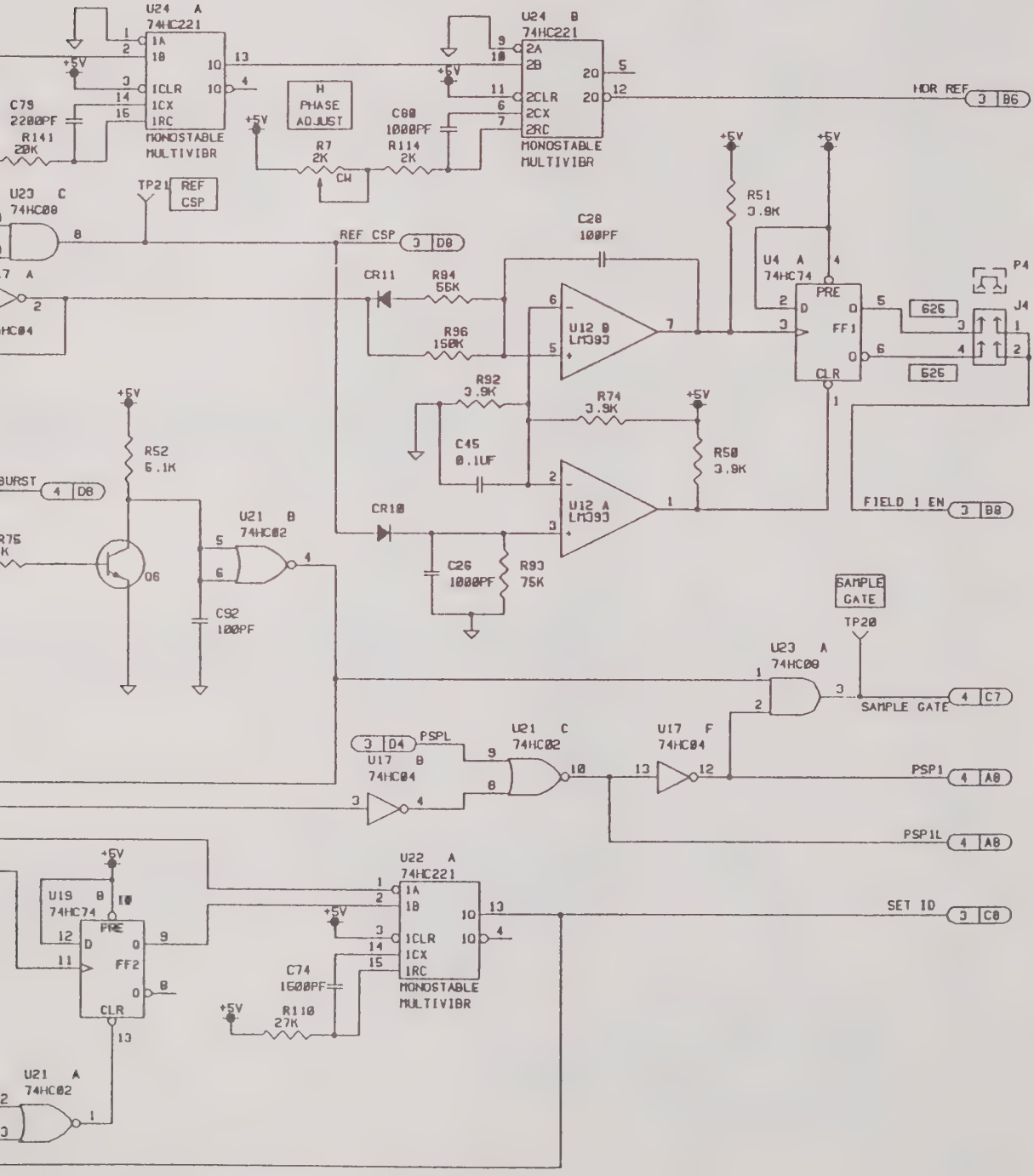
P/N	VENDOR P/N	+15V	-15V	+5V	AGND
7	TL082	8	4	---	---
7	74HC4046	---	---	16	8
0	74HC4050	---	---	1	8
6	74HC74	---	---	14	7
4	74HC08	---	---	14	7
2	LM398	1	4	---	---
3	LM6361	7	4	---	---
9	MC1595	---	7	---	---
1	78L05	---	---	---	---
3	LM393	8	---	---	4
5	MC14066BCP	---	---	14	7
2	74HC73	---	---	14	7
9	74HC4049	---	---	1	8
7	SAA1043	---	---	---	---
3	74HC04	---	---	14	7
8	CD4069	---	---	14	7
6	74HC02	---	---	14	7
5	74HC221	---	---	16	8
5	CA3086	---	---	---	---

FIELD SERVICE LIST

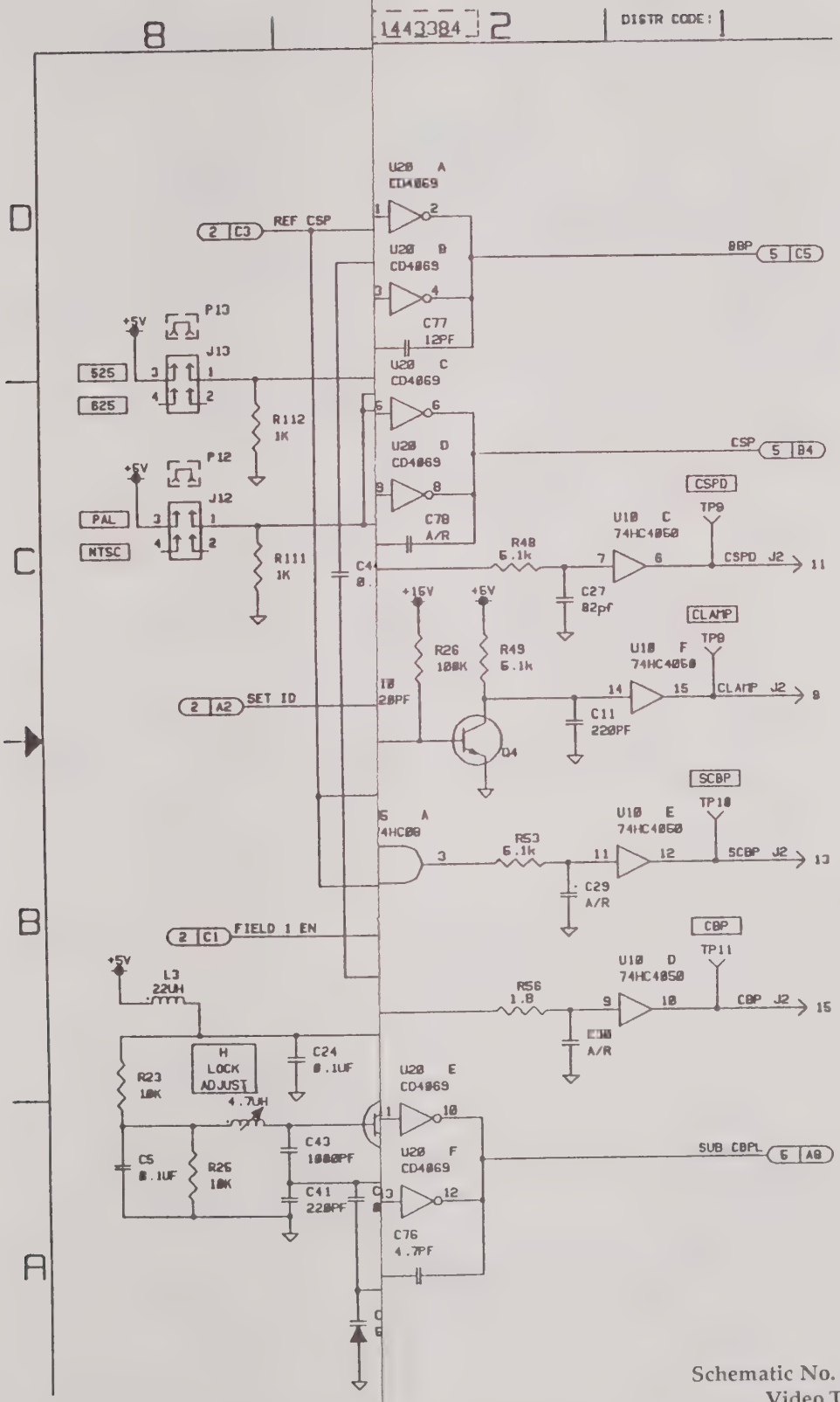
AMPEX P/N	VENDOR P/N
580-740	2N4393
580-226	2N4124
580-304	P1087
580-809	2N4126
581-105	1N4148
581-480	1N5231B
581-735	MV2109

NOTES: UNLESS OTHERWISE SPECIFIE
1. PWA NO. IS 1443382-X1.
2. RESISTOR VALUES ARE IN OHMS;
3. A1 RESISTOR VALUE IS 5.6K, PI
4. THIS SCHEMATIC CONTAINS STATI
5. ALL DIODES ARE 1N4148.
6. ALL NPN TRANSISTORS ARE 2N412
7. ALL PNP TRANSISTORS ARE 2N412

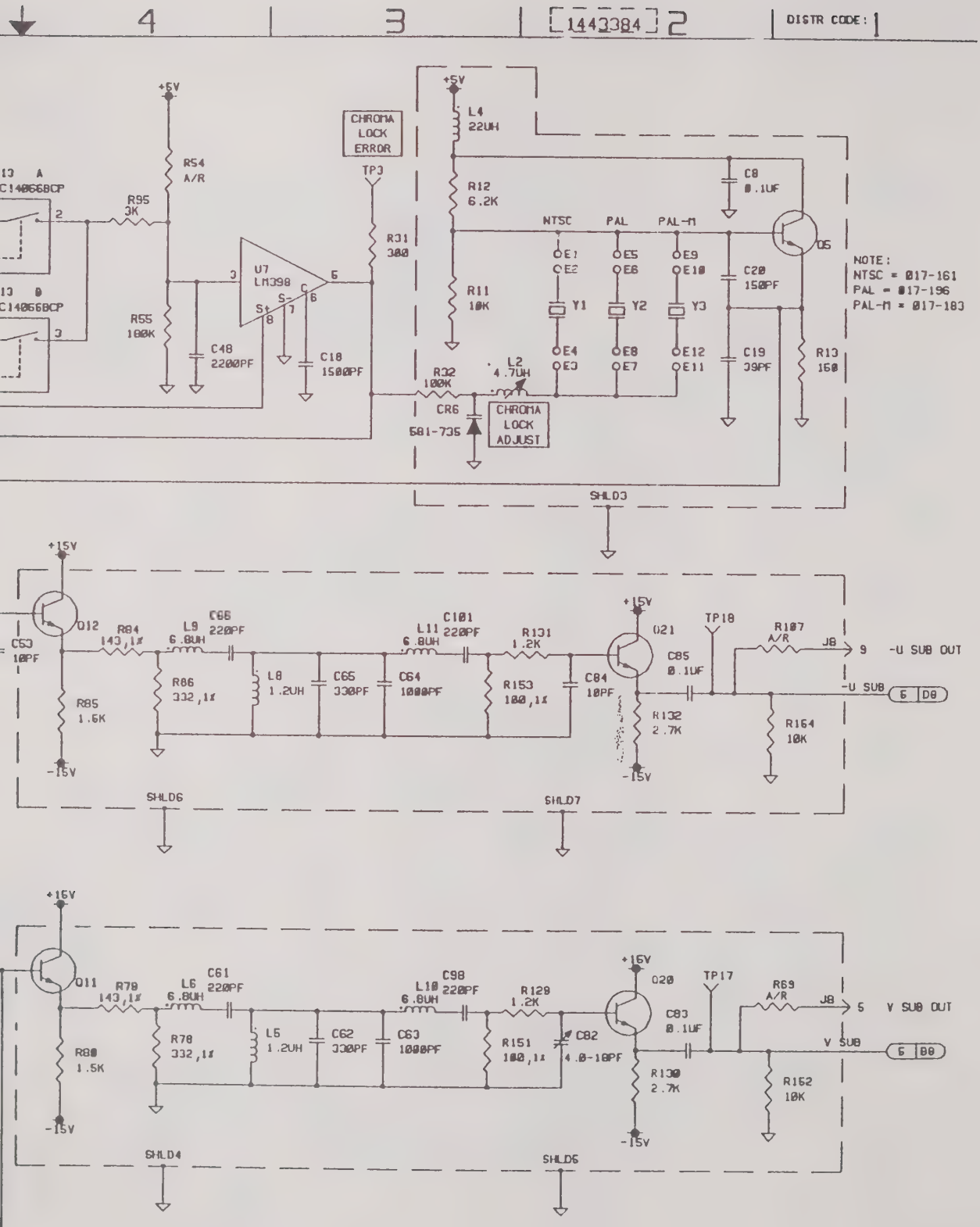
Schematic No. 1443384-X1.
Video Timing PWA
(Sheet 1 of 5)



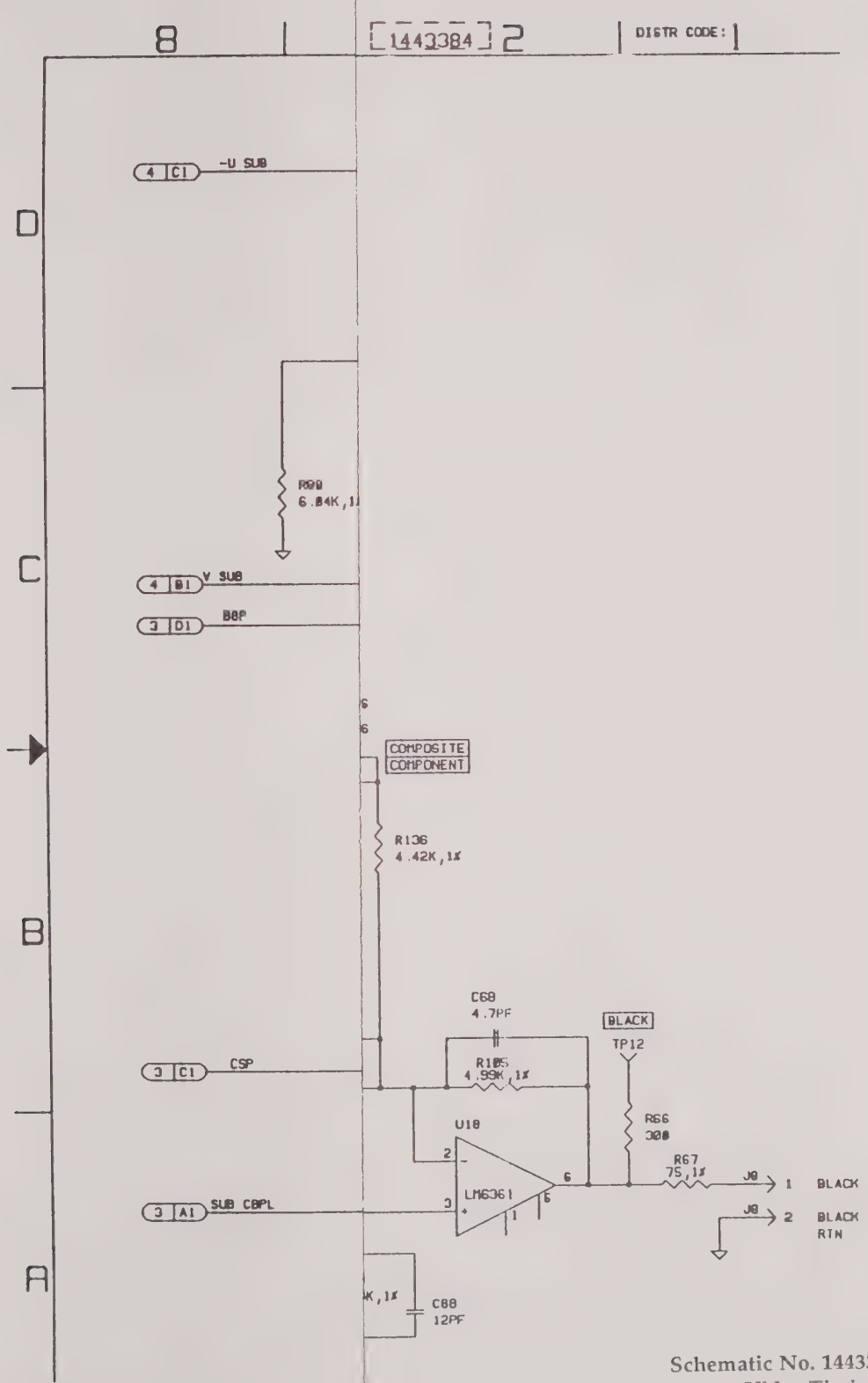
Schematic No. 1443384-X1.
Video Timing PWA
(Sheet 2 of 5)



Schematic No. 1443384-X1.
Video Timing PWA
(Sheet 3 of 5)



Schematic No. 1443384-X1.
Video Timing PWA
(Sheet 4 of 5)



Schematic No. 1443384-X1.
Video Timing PWA
(Sheet 5 of 5)

ITEM NO.	PART NUMBER		DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER -01
1	1430956-01	PWA, DUMPSTER BUS INTERFACE			1
2	1431009-01	OVERLAY, SWITCHER I/O PANEL			1
3	1431709-01	SWITCHER, I/O PANEL			1
4	1431719-01	HARNESS, REGULATOR - BACKPLANE			1
5	1431726-01	HARNESS, DUMPSTER - BACKPLANE			1
6	1431728	INTERCONNECT DIAGRAM COMPOSITE SYSTEM			A
7	1445916-01	PWA, SWITCHER BACKPLANE			1
8	1445919-01	PWA, SWITCHER EXTENDER			1
9					
10					
11	474-500	SCREW, MACH, PAN HD, 4-40 X .312 LG			36

LM-1431267

ITEM NO.	PART NUMBER		DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER -01
1	1445924-02	PWA, AUDIO SWITCHER			1

LM-1431590

ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
	*	indicates a NOTE see last page of List Of Materials			
1					
2	1445926-02	SCHEMATIC			REF
3	066-811	RESISTOR, 51 OHMS, 5%, 1/4 WATT		R104,120,181,196,232, 241	6
4	062-864	RESISTOR, 150 OHMS, 1%, 1/4 WATT		R175,223	2
5	066-815	RESISTOR, 300 OHMS, 5%, 1/4 WATT		R1,4,5,20,110,188,206 207,213,253,259,270 302,307,341-343,364 365	19
6	062-904	RESISTOR, 511 OHMS, 1%, 1/4 WATT		R160	1
7	066-840	RESISTOR, 680 OHMS, 5%, 1/4 WATT		R284-289,324-329	12
8	062-908	RESISTOR, 604 OHMS, 1%, 1/4 WATT		R345	1
9	066-866	RESISTOR, 27K OHMS, 5%, 1/4 WATT		R103,109,182,195,231 240	6
10	062-624	RESISTOR, 1K OHMS, 1%, 1/4 WATT		R336,337	2
12	066-666	RESISTOR, 2.7K OHMS, 5%, 1/4 WATT		R298,301	2
13	066-827	RESISTOR, 3.9K OHMS, 5%, 1/4 WATT		R105,130,180,197,233 242	6
14	066-435	RESISTOR, 4.42K, 1%, 1/4 WATT		R189,191,214,236,344	5
15	066-826	RESISTOR, 2K, 5%, 1/4 WATT		R9,10,167,366	4
16	062-968	RESISTOR, 4.99K, 1%, 1/4 WATT		R252,254,255,346,348 350,353,355,357	9
17	079-973	RESISTOR, 4.99K 0.1%, 1/8 WATT	*1	R16-19,26-29,36-39,46, 47-49,56-59,66-69,76, 77-79,86-89,96-99,116 117-119,126-129,136, 137-139,146-149,156, 157-159	56
18	062-972	RESISTOR, 5.62K, 1%, 1/4 WATT		R190,192,215,237	4

ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
19	062-642	RESISTOR, 6.81K, 1%, 1/4 WATT		R264-265,271,272,308, 309,312,313	8
20	066-513	RESISTOR, 8.66K, 1%, 1/4 WATT		R296,299	2
21					
22	066-670	RESISOTR, 9.1K, 5%, 1/4 WATT		R256	1
23	066-830	RESISTOR, 10K, 5%, 1/4 WATT		R7,170,176,218,224, 279,283,319,323	9
24	062-983	RESISTOR, 10K, 1%, 1/4 WATT		R251	1
25	079-974	RESISTOR, 10K 0.1%, 1/8 WATT *1		R11,21,31,41,51,61,71, 81,91,111,121,131,141 151,168,171,174,177, 216,219,222,225	22
26	062-985	RESISTOR, 10.7K, 1%, 1/4 WATT		R164	1
27	076-343	RESISTOR, 11.5K, 1%, 1/4 WATT		R161	1
28	062-983	RESISTOR,10.0K, 1%, 1/4 WATT		R165	1
29	192-653	RESISTOR, 14K, 0.1%, 1/8 WATT *1		R14,15,24,25,34,35,44 45,54,55,64,65,74,75 84,85,94,95,114,115, 124,125,134,135,144, 145,154,155	28
30	062-998	RESISTOR, 18.7K, 1%, 1/4 WATT		R297,300	2
31	066-873	RESISTOR, 20K, 5%, 1/4 WATT		R101,107,184,193,229, 238	6
32	062-693	RESISTOR, 20K, 1%, 1/4 WATT		R30,40,50,60,70,80, 90,100,102,108,178, 183,194,199,230,235 239,244	18
33	190-696	RESISTOR, 20K, 0.1%, 1/8 WATT *1		R172,173,220,221	4
34	066-925	RESISTOR, 22.1K, 1%, 1/4 WATT		R204,212	2
35	066-006	RESISOTR, 26.7K, 1%, 1/4 WATT		R262,263,267,268,310, 311,314,315	8
36	066-714	RESISTOR, 35.7K, 1%, 1/4 WATT		R150,166,205	3
37	192-652	RESISTOR, 35.7K, 0.1%, 1/8 WATT *1		R12,13,22,23,32,33,42, 43,52,53,62,63,72,73, 82,83,92,93,112,113, 122,123,132,133,142, 147,152,153	28
39	066-014	RESISTOR, 47.5K, 1%, 1/4 WATT		R162,290-295,330-335	11
40	079-996	RESISTOR, 49.9K, 0.1%, 1/8 WATT *1		R185,186,227,228	4
41	066-833	RESISTOR, 56K, 5%, 1/4 WATT		R8	1
42	192-655	RESISTOR, 88.7K, 0.1%, 1/8 WATT *1		R187,226	2
43	066-849	RESISTOR, 100K, 5%, 1/4 WATT		R106,140,179,198,234, 243,260,261,266,269, 276,277,278,280,281, 282,303-306,316-318, 320-322	26
44	076-194	RESISTOR, 174K, 1%, 1/4 WATT		R163	1
45	066-154	RESISTOR, 205K, 1%, 1/4 WATT		R203,211	2

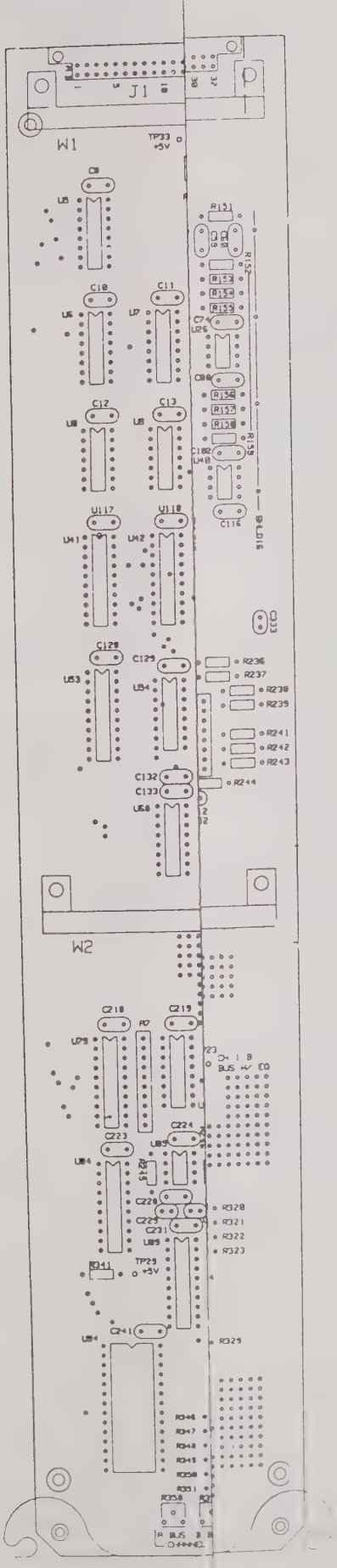
AMPEX CORPORATION REDWOOD CITY, CALIFORNIA	LIST OF MATERIALS	LM- 1445924-02 PAGE 3 OF 5	B

ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
46	062-601	RESISTOR, 100K, 1%, 1/4 WATT		R347,349,351,352,354, 356	6
47	066-023	RESISTOR,237K, 1%, 1/4 WATT		R200,208	2
48	066-878	RESISTOR, 649K, 1%, 1/4 WATT		R201,202,209,210	4
49	066-673	RESISTOR, 1M, 5%, 1/4 WATT		R6	1
50	.....	RESISTOR, A/R		R257	A/R
51	075-647	RESISTOR, VAR., 5K, SIDE ADJ.		R258	1
52	075-646	RESISTOR, VAR., 10K, SIDE ADJ.		R358-363	6
53	075-439	RESISTOR, VAR., 50K, SIDE ADJ.		R273-275,338-340	6
54	062-623	RESISTOR, 976 OHMS, 1%, 1/4 WATT		R247,169	2
55	066-974	RESISTOR, 150K, 5%, 1/4 WATT		R245-250	6
56	039-241	RESISTOR NETWORK, 4.7K,10 PIN,SIP		A7	1
57	064-208	CAPACITOR, 15pF, 100V, 5%, CER.		C139,147,193,198	4
58	064-206	CAPACITOR, 10pF, 100V, 5%, CER.		C229,230,233,234,237 238	6
59	064-856	CAPACITOR, 22pF, 100V, 5%, CER.		C17-20,25-28	8
60	064-217	CAPACITOR, 100pF, 100V, 5%, CER.		C120,122,149,169,171 176,200,255,259,265 268,295,299,305,308 333, 338-341	20
61	164-533	CAPACITOR, 390pF, 100V, 5%, CER.		C279,284,319,324	4
62	064-212	CAPACITOR, 39pF, 100V, 5%, CER.		C209,212,337,152,160, 334,178,168,336,335	10
63	069-345	CAPACITOR, 3900pF, 30V, 5%, POLY		C280,283.320,323	4
64	069-342	CAPACITOR, .02uF, 30V, 5%, POLY		C273,278,313,318	4
65	069-346	CAPACITOR, .039uF, 30V, 5%, POLY		C281,282,321,322	4
66	069-341	CAPACITOR, .068uF, 30V, 2%, POLY		C124,125	2
67	064-062	CAPACITOR, .1uF,100V, 20%, CER.		C1,2,8,10,11-16,21-24 29-32,61-119,121,123, 126-138,140-146,148, 150,151,153,155-157, 159,165-167,172,175, 179-183,190-192,194- 194-197,199,201-208 211,213,215-228,231, 232,235,236,239-243 245,246,248-253,260,261,270,285-292 300,301,309,310,325- 332,769,346	191
68	069-343	CAPACITOR, .2uF, 30V, 5%, POLY		C274,277,314,317	4
69	069-245	CAPACITOR, .47uF, 250V, 5%, POLY		C161-164,186-189	8
70	037-298	CAPACITOR, .47uF, 6V, 20%, TANT.		C257,258,263,266,267, 272,297,298,303,306, 307,312,	12
71	064-314	CAPACITOR, 1uF, 50V, 20%, CER.		C173,174,184,185	4
72	069-344	CAPACITOR, 2uF, 30V, 5%, POLY		C275,276,315,316	4
73	063-578	CAPACITOR, 22uF, 25V, 20%, ALUM.		C3,4,5,6,293,294	6
74	063-579	CAPACITOR, 47uF, 10V, 20%, ALUM.		C7	1
75	.....	CAPACITOR, A/R		C244,247,256,264,296 304,347	A/R
76	064-316	CAPACITOR, 2.2uF,100V,20%,CERAMIC		C33-60,154,158,210,214 262,271,302,311,170,177	38

ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
				177	
77	003-404	IC., 74HC08	*1	U92	1
78	002-093	IC., 74HC00	*1	U44	1
79	003-143	IC., 74HC04	*1	U9,82	2
80	003-146	IC., 74HC74	*1	U8,81,88	3
81	003-376	IC., 74HC138	*1	U80	1
82	003-147	IC., 74HC154	*1	U83	1
83	005-563	IC., 74HC165	*1	U54,55	2
84	003-418	IC., 74HC175	*1	U68,69,70,71	4
85	005-572	IC., 74HC294	*1	U45	1
86	003-150	IC., 74HC373	*1	U41,42,53,79	4
87	003-151	IC , 74HC374	*1	U84	1
88	003-017	IC., 74HC393	*1	U10,11	2
89	003-670	IC., 74HC4050	*1	U5,6,7	3
90	003-152	IC., AD7528		U89-91	3
91	001-032	IC., ADC0808		U94	1
92	587-858	IC., CD4069	*1	U43	1
93	003-677	IC., DBX2150		A1-6	6
94	005-696	IC., DG508	*1	U72,73,76,77	4
95	004-553	IC., DG509	*1	U49,62	2
96	005-748	IC., DG5043	*1	U47,52	2
97	004-533	IC., DG5045	*1	U46,51	2
98					
99	003-142	IC., LF412A		U63,74,78,85-87,93,95	8
100	005-564	IC., LM833		U58,59,64,65,96,97 99-104,106-109	16
101	005-565	IC., LM835		U98,105	2
102	581-996	IC., LT1009		Q1	1
103	589-960	IC., NE5533		U1-4	4
104	1445914-01	PAL, PARALLEL TO SERIAL IF		U12	1
105	589-425	IC., TL074		U75	1
106	589-427	IC., TL082		U13-40,48,50,57,60,61, 66,67	35
107	587-440	IC., UA7812	*1	U111	1
108	589-862	IC., UA7912	*1	U110	1
109	590-957	IC., MM6116	*1	U56	1
110					
111	582-333	IC. SOCKET, 20 PIN	REF:	U12	1
112	582-517	HEATSINK		HS1,2	2
113	064-199	CAPACITOR, 2.2pF CERAMIC 100V		C342-345	4
114	581-105	DIODE, 1N4148		C1-8,11-14,17,18	14
115	581-480	DIODE, 1N5231B, ZENER		CR9,10,15,16	4
116	580-226	TRANSISTOR, NPN, 2N4124		Q3	1
117	580-809	TRANSISTOR, PNP, 2N4126		Q2	1
118	051-770	FERRITE FILTER		FL1-3	3
119	187-259	TEST POINT		TP1-16,18-35	34
120	070-443	FUSE, 3 AMP		F1	1
121	595-076	CRYSTAL, 512KHz		Y1	1
122	141-129	CONNECTOR, 64 POS. RIGHT ANG'E		J1-4	4
123	530-512	CARD EJECTOR			2
124	204-758	SCREW, PPH, M2.5 X 0.45 X 10MM		J1-4	8
125	204-757	NUT, HEX, M2.5 X 0.45		J1-4	8
126	204-785	WASHER, LOCK, INT, M2.5		J1-4	8

AMPEX CORPORATION REDWOOD CITY, CALIFORNIA	LIST OF MATERIALS	LM- 1445924-02 PAGE 5 OF 5	B

ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
127	204-099	SCREW, PPH, 3M X 10		U110,111,W1,2	14
128	204-171	NUT, M3 X 5.5 MMAF X 2.4MMTH		U110,111,W1,2	14
129	204-159	WASHER, PLAIN, M3		U110,111,W1,2	14
130	1445943-01	CARD STIFFENER		W1,2	2
131	204-153	LOCKWASHER, M3		U110,111,W1,2	14
132	173-734	TERMINAL, BIFURCATED SVAG		X1,X2	2
		*1 STATIC SENSITIVE: REQUIRES SPECIAL HANDLING			



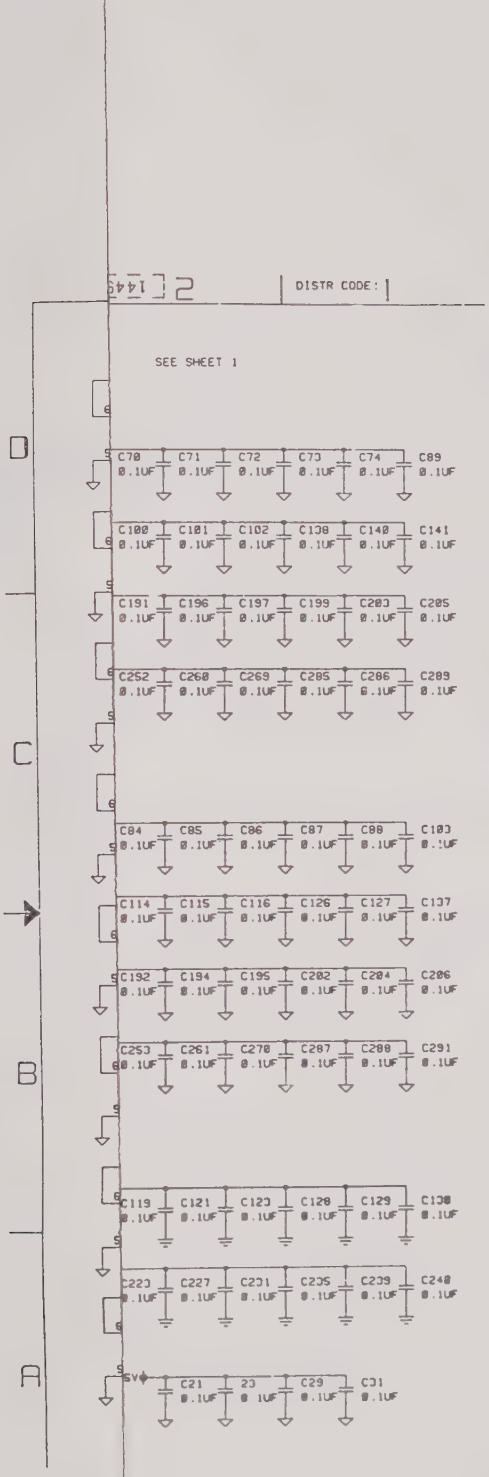
Assembly No. 1445924-01A.
Audio Switcher PWA

+5V	AGND	DGND
17	1	5
11	---	13
---	---	---
---	14	---
---	15	---
---	13	---
---	13	---
---	---	---
---	---	---
---	28	13
---	---	---
20	---	10
---	---	---
---	---	---
24	---	12
14	---	7
14	---	7
14	---	7
14	---	7
16	---	8
24	---	12
16	---	8
16	---	8
16	---	8
20	---	10
20	---	10
16	---	8
1	---	8

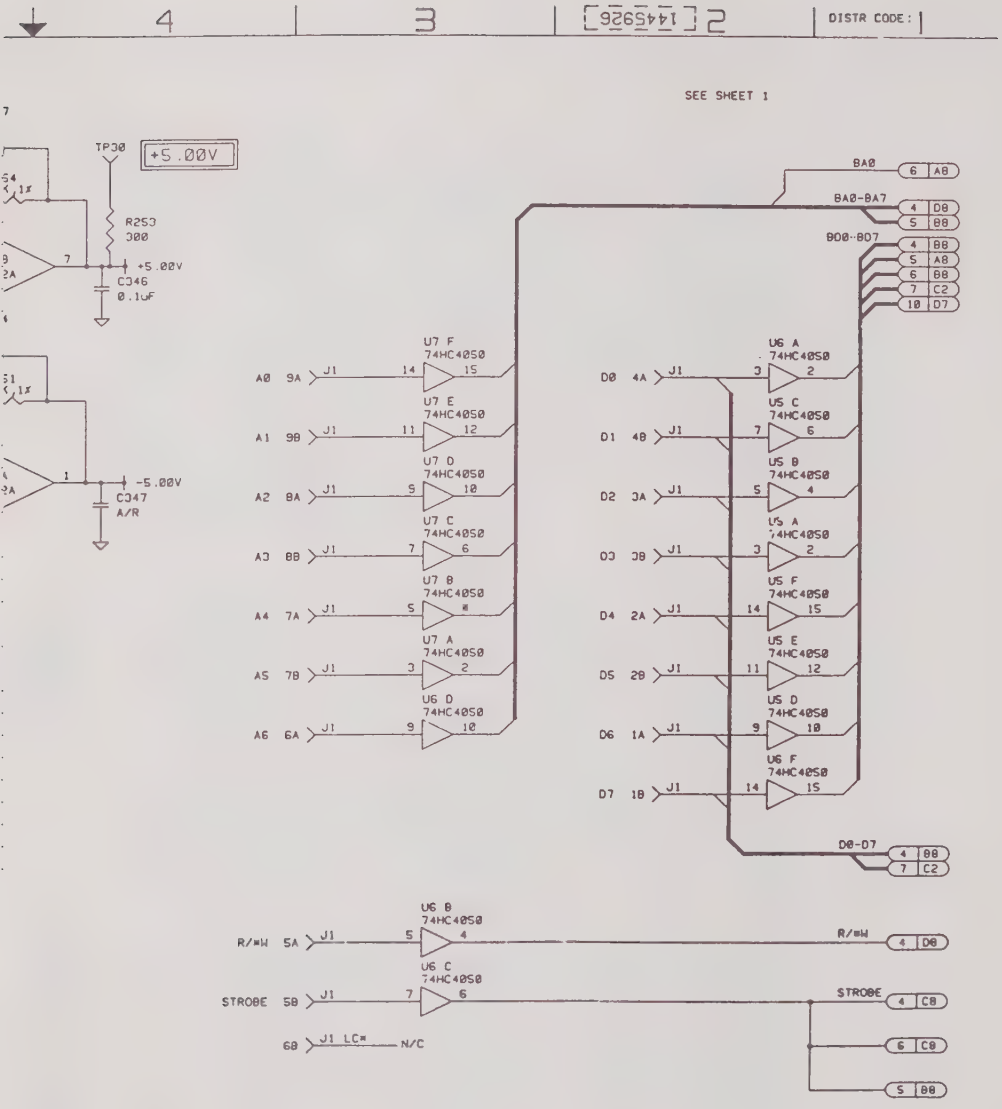
REFERENCE DESIGNATOR	
LAST USED	NOT USED
R366 HS2 C347 O3 U111 Y1 CR18 A7 TP35 J4 FL3 F1	R2,R3 C9,C254 TP17

FIELD SERVICE LIST	
AMPEX P/N	VENDOR P/N
581-105 579-123 579-124 581-480	1N4148 2N4124 2N4126 1N5231B

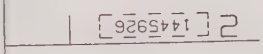
Schematic No. 1445926-02B.
Audio Switcher PWA
(Sheet 1 of 15)

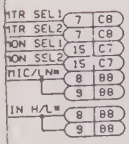


Schematic No. 1445926-02B.
Audio Switcher PWA
(Sheet 2 of 15)



Schematic No. 1445926-02B.
Audio Switcher PWA
(Sheet 3 of 15)





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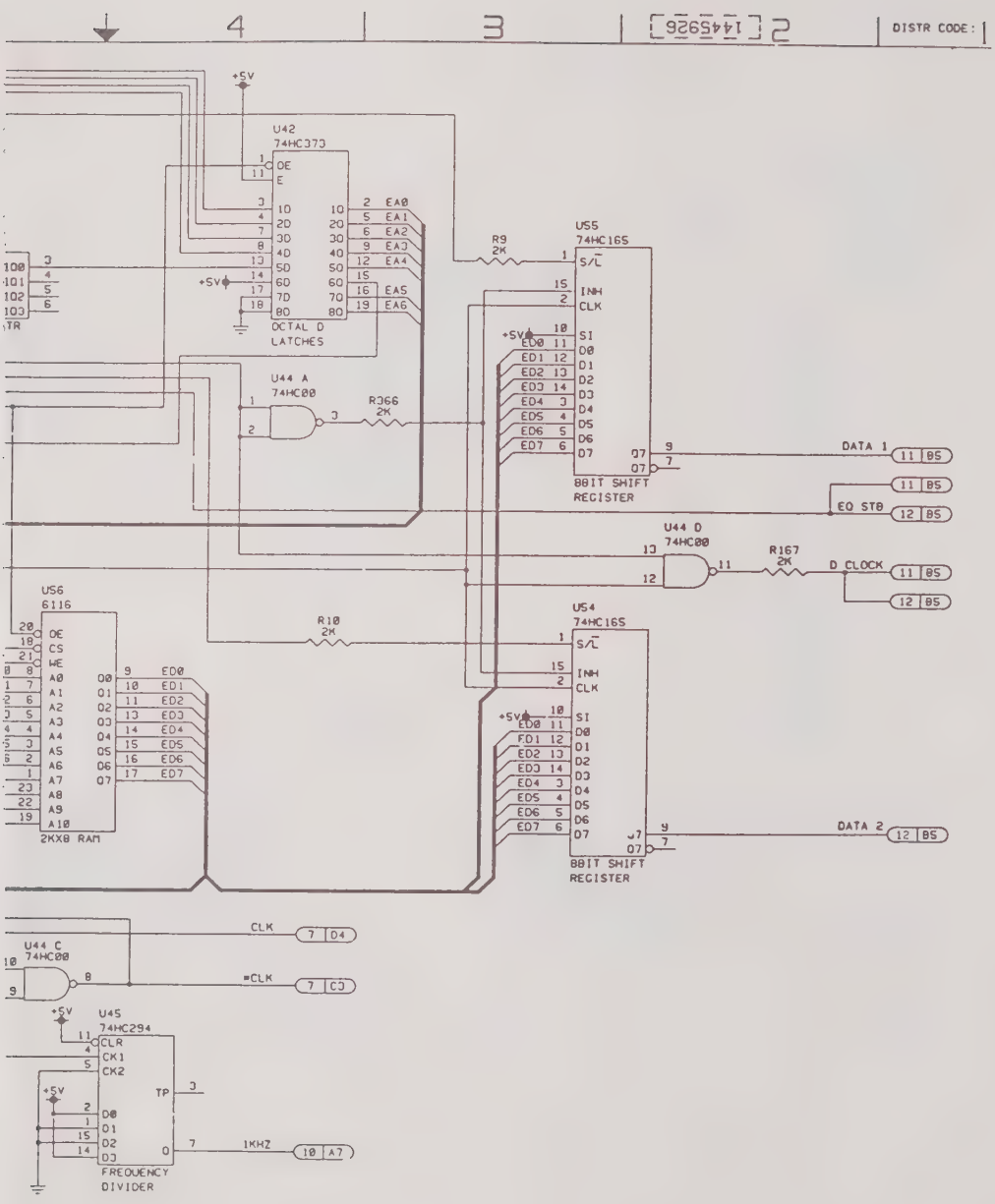
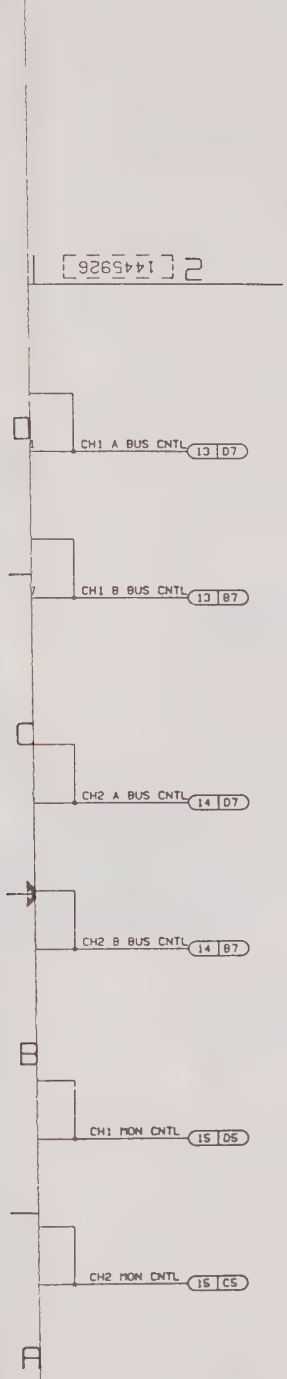
Audio Switcher PWA
(Sheet 4 of 15)



Schematic No. 1445926-02B.
Audio Switcher PWA
(Sheet 5 of 15)



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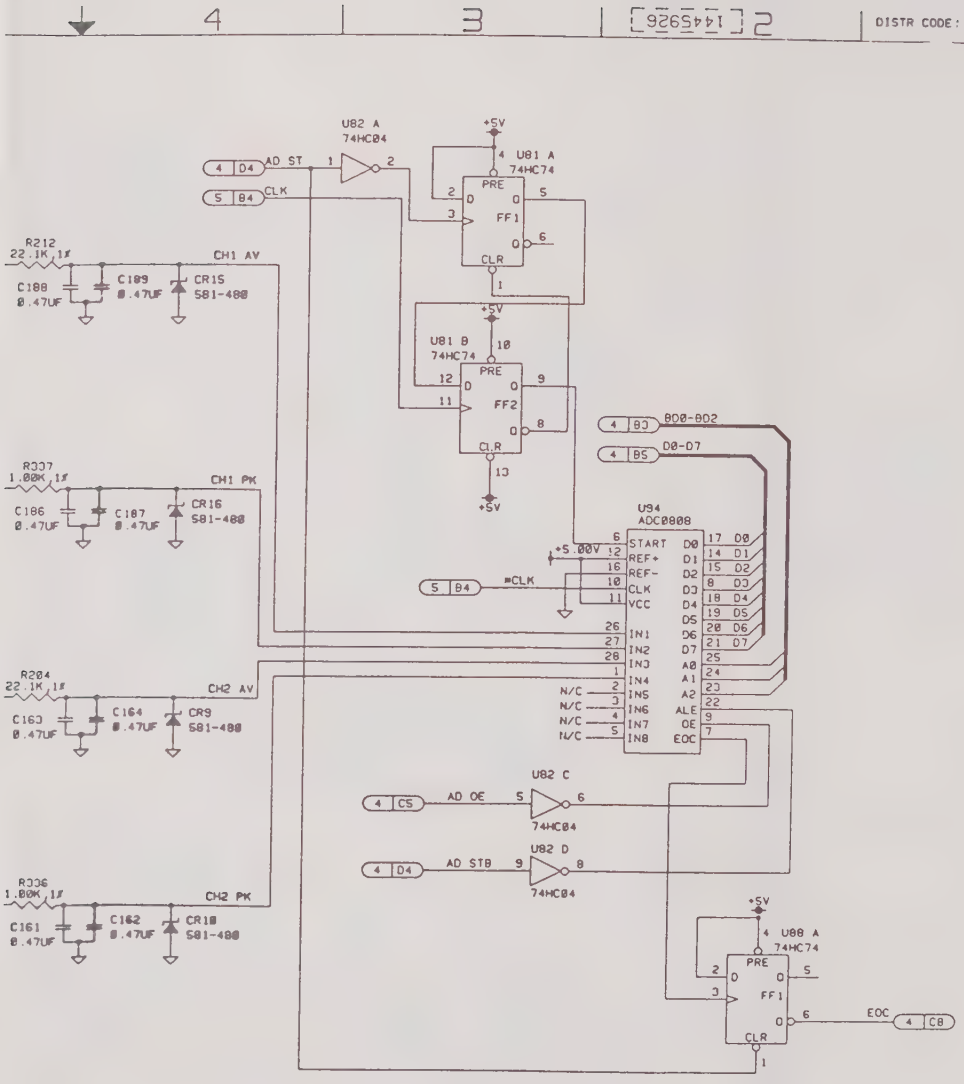
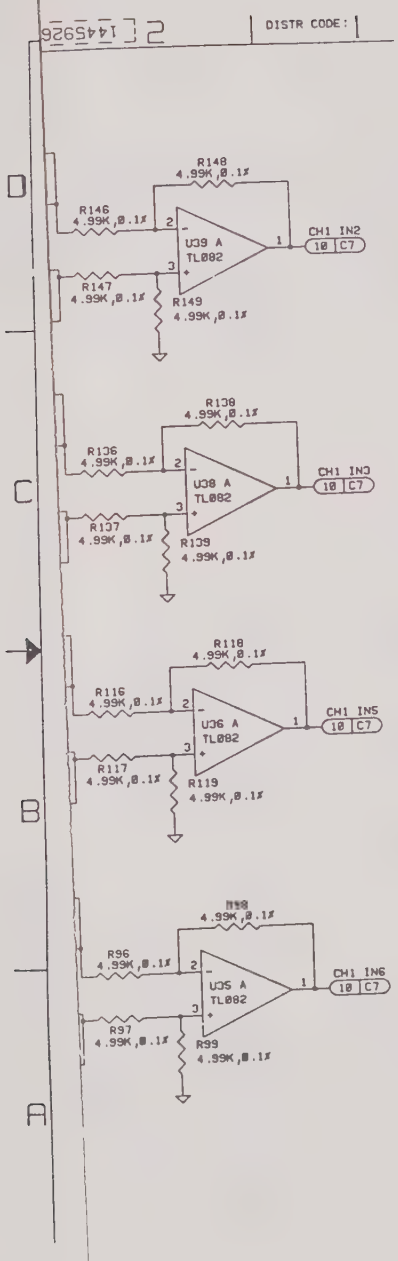
Audio Switcher PWA
(Sheet 6 of 15)



Schematic No. 1445926-02B.
Audio Switcher PWA
(Sheet 7 of 15)



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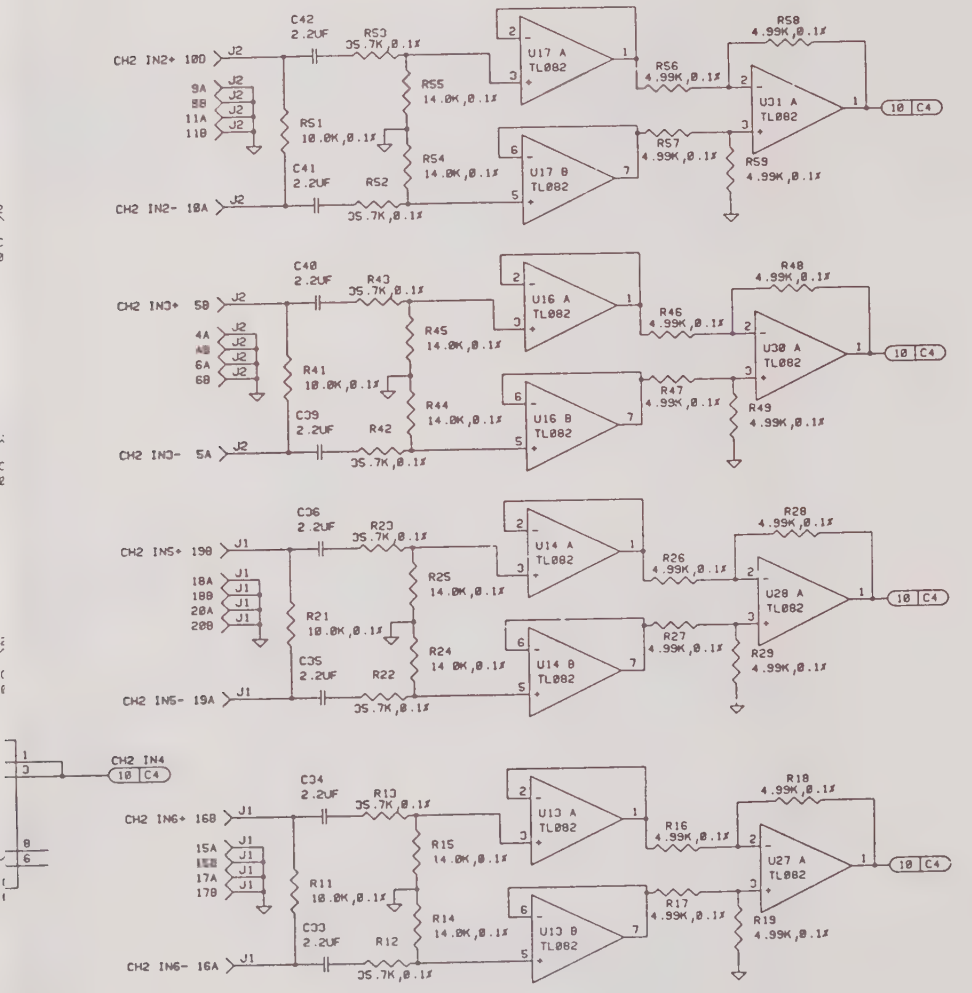
Audio Switcher PWA
(Sheet 8 of 15)



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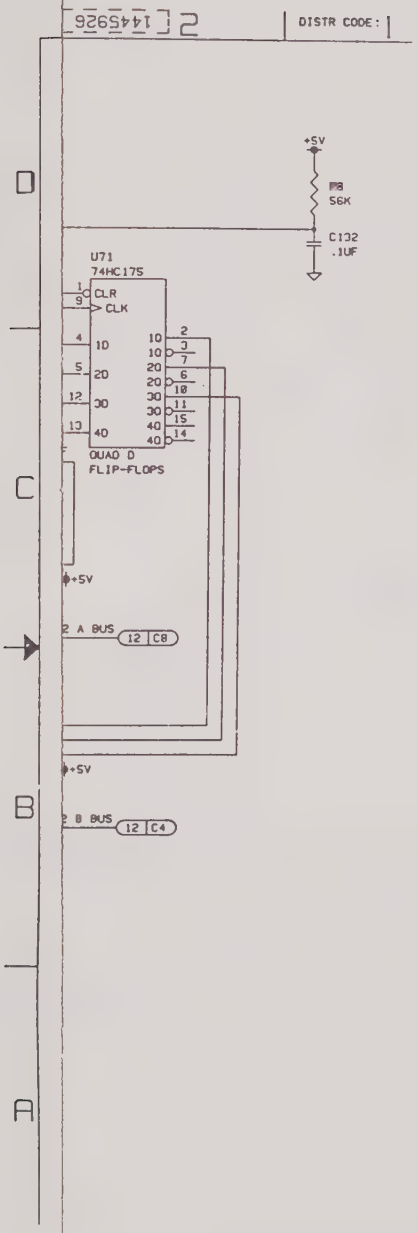
Audio Switcher PWA
(Sheet 9 of 15)



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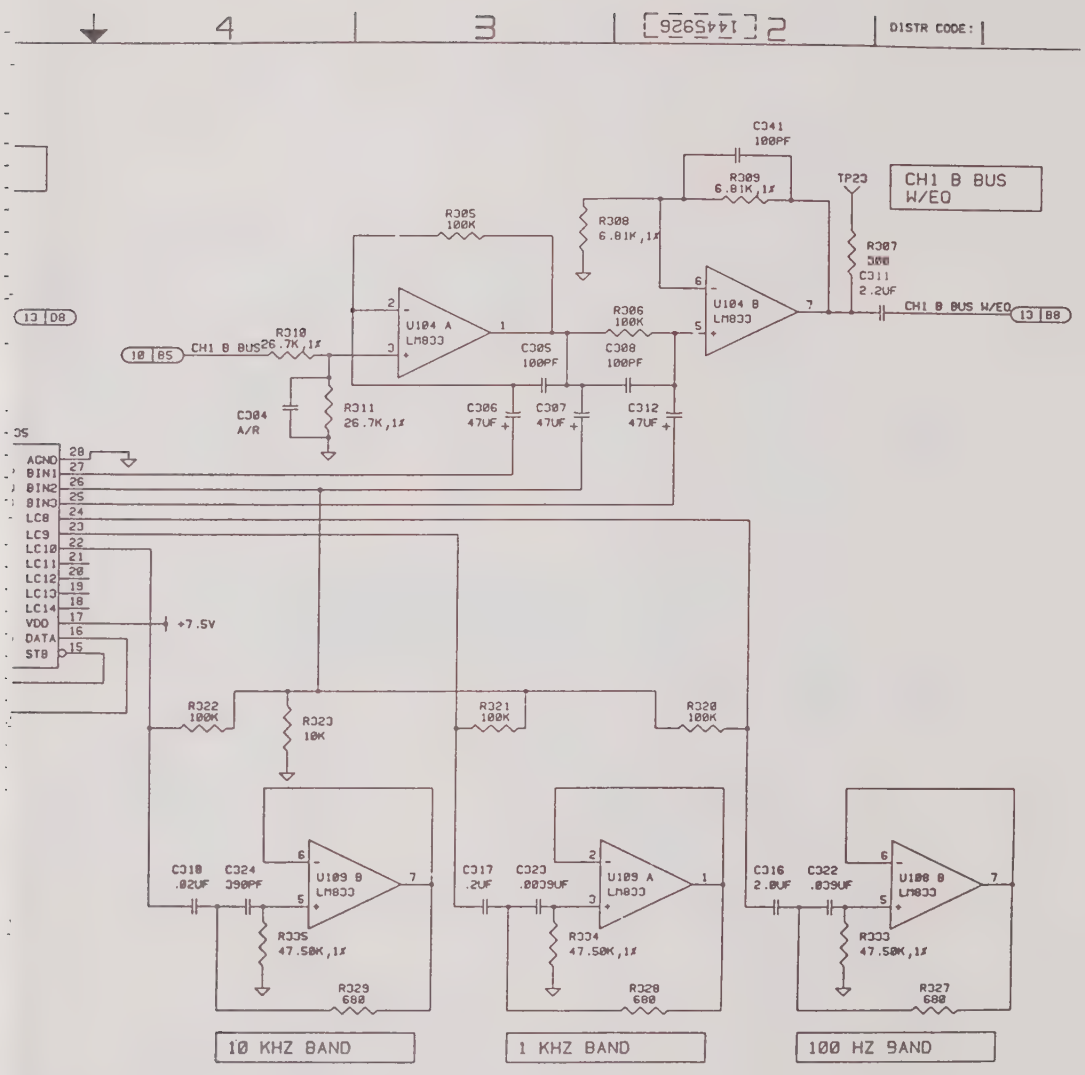
Audio Switcher PWA
(Sheet 10 of 15)



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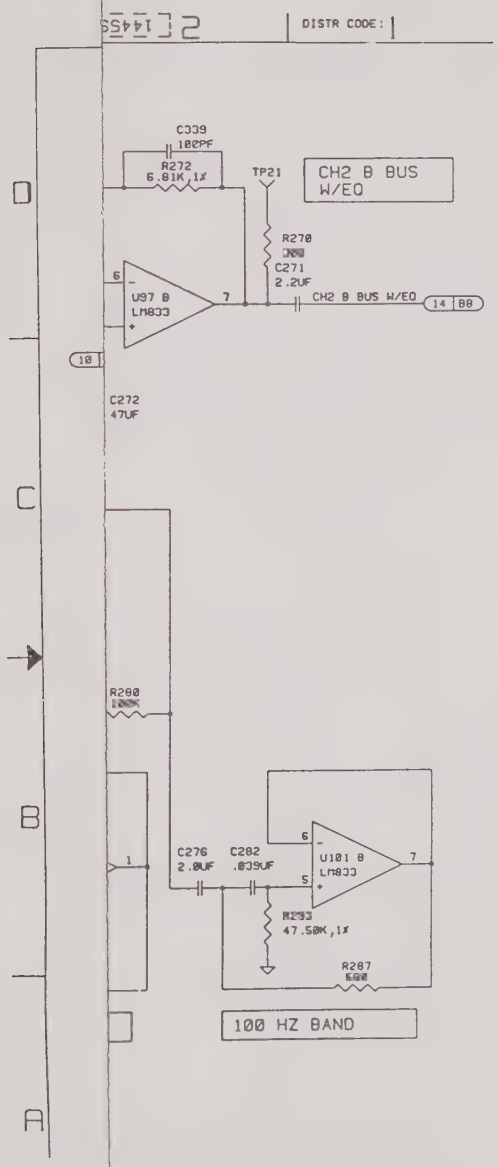
Audio Switcher PWA
(Sheet 11 of 15)



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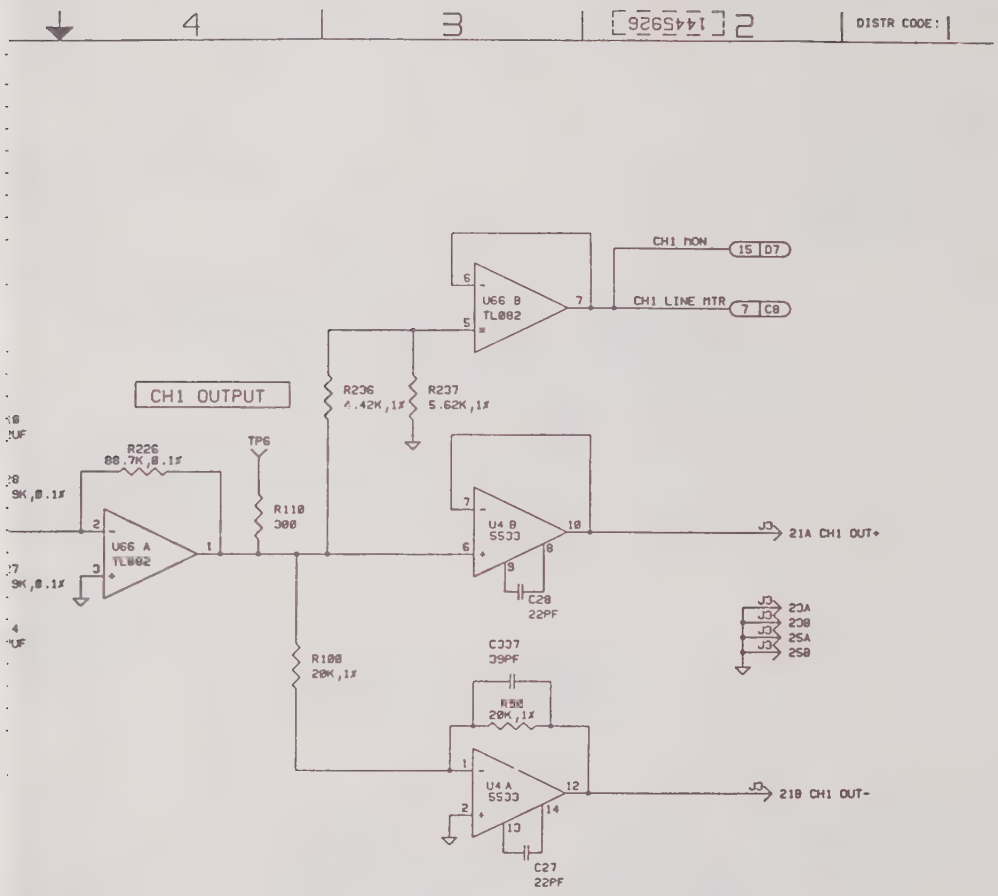
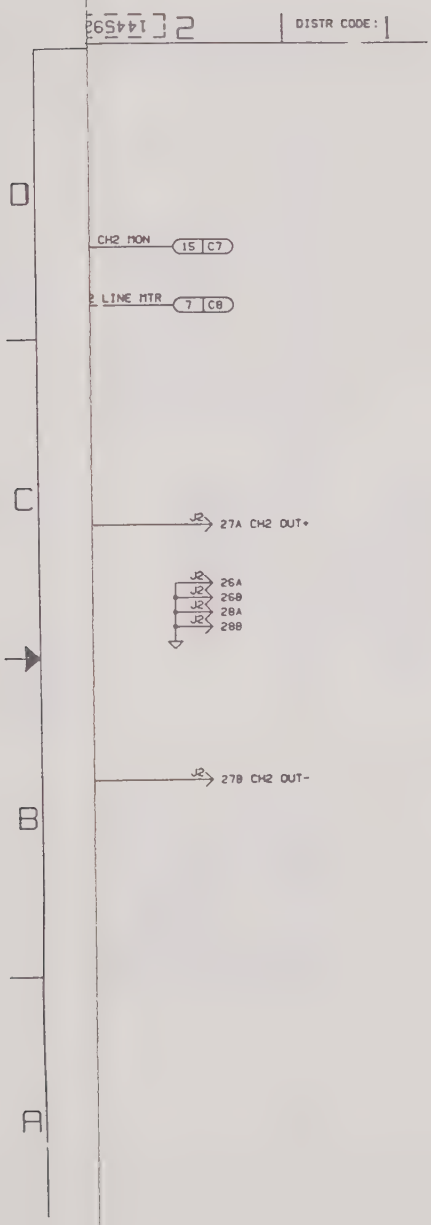
Audio Switcher PWA
(Sheet 12 of 15)



Schematic No. 1445926-02B.
Audio Switcher PWA
(Sheet 13 of 15)



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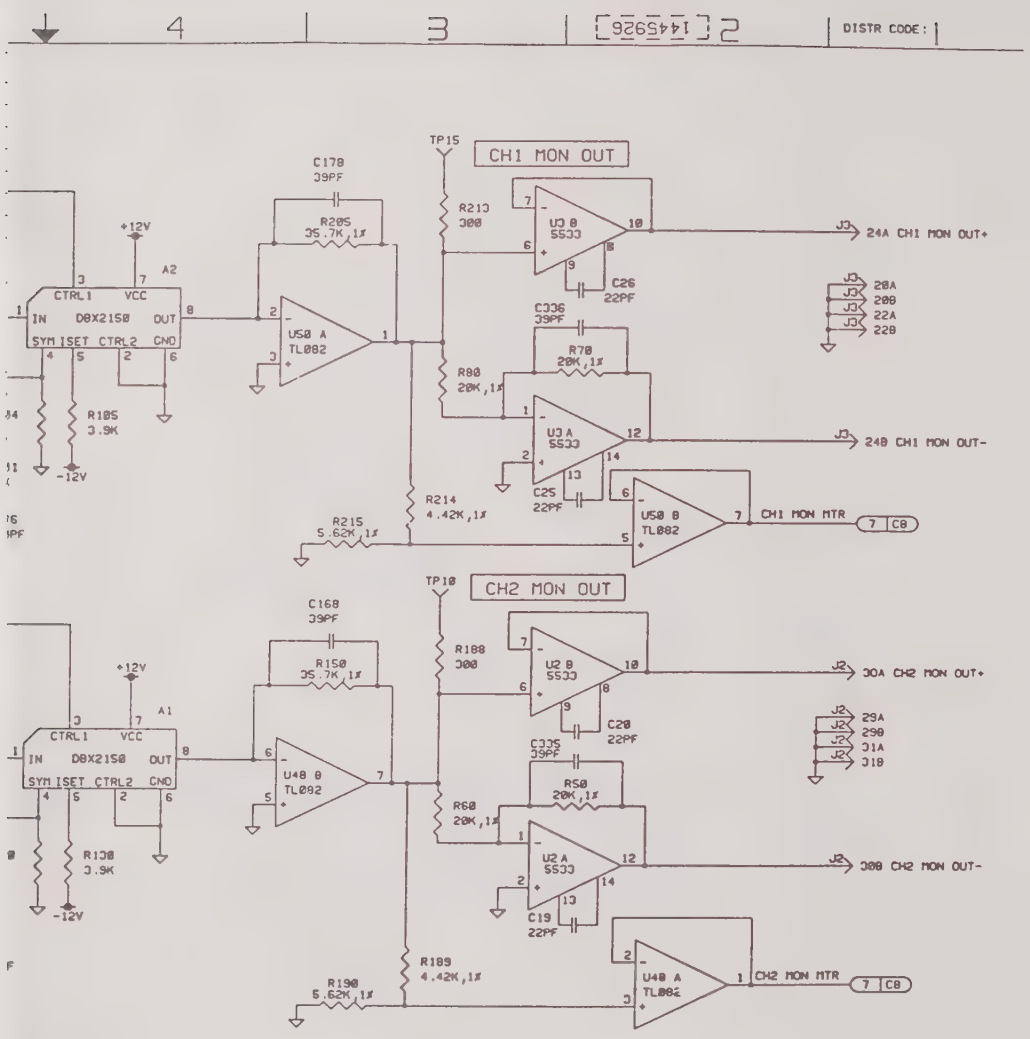
Audio Switcher PWA
(Sheet 14 of 15)



Schematic No. 1445926-02B.
Audio Switcher PWA
(Sheet 15 of 15)

1430588-AA	TABLE TOP MONITOR KIT, 110V	REV. D
1430588-AB	TABLE TOP MONITOR KIT, 220V	REV. D

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER -AA	-AB
1	1430983-01	MONITOR, MONOCHROME		1	1
2	1431632-01	TRADEMARK, ACE 25 MONITOR		1	1
3	084-051	POWER CORD		1	1
4	204-100	SCREW, PAN HD, XREC, M3 X 12		2	2
5	650-319	IDENT. LABEL, 110 VOLTS		1	-
6	650-320	IDENT. LABEL, 220 VOLTS		-	1

NOTES:

1. -AA FOR 110V AC LINE VOLTAGE.
2. -AB FOR 220V AC LINE VOLTAGE.

LM-1430588

1431588-AA	RACK MOUNT MONITOR KIT, 110V	REV. E
1431588-AB	RACK MOUNT MONITOR KIT, 220V	REV. E

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER -AA	-AB
1	1430973-01	RACK MOUNT		1	1
2	1430983-01	MONITOR, MONOCHROME		1	1
3	1431632-01	TRADEMARK, ACE 25 MONITOR		1	1
4	084-051	POWER CORD		1	1
5					
6					
7					
8	503-087	WASHER TRIM, WH		4	4
9	204-075	SCREW, F.H., MS X 12		4	4
10	471-355	SCREW, F.H., 10-32 X .438		4	4
11	204-100	SCREW, PAN HD, M3 X 12		2	2
12	650-319	IDENT. LABEL, 110 VOLTS		1	-
13	650-320	IDENT. LABEL, 220 VOLTS		-	1

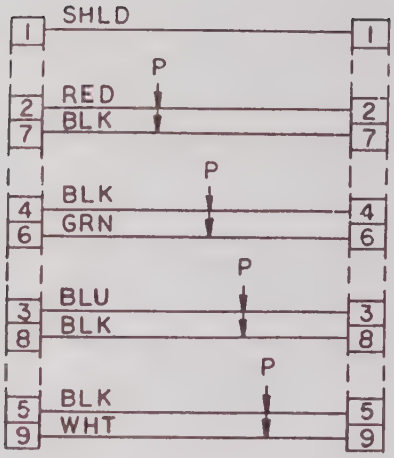
NOTES:

1. -AA FOR 110V AC LINE VOLTAGE.
2. -AB FOR 220V AC LINE VOLTAGE.

LM-1431588

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER -01
1	1430980-01	PWA, EXTENDER		1
2				
3	1499060-02	ACE 25 INSTRUCTION MANUAL LIST		1
4	084-051	POWER CORD		1
5	503-309	WASHER, BLACK FINISHING		-
6	204-075	SCREW, FH M5 X 12		-
7	471-355	SCREW, FH 10-32 X .438 LG		-
8	530-584	SLIDE ASSEMBLY		2
9	CD752	SCREWS, METRIC	REF: ITEM NO. 8	AR
10	CD754	WASHERS, METRIC	REF: ITEM NO. 8	AR
11	290-198	BRACKET, SLIDE MTG		2
12	501-191	WASHER, PLAIN, SMALL PATTERN		8
► 13	470-037	SCREW, CAP, HEX SOCKET, 10-32 X .438 LG		8
14	204-025	SCREW, CAP, METRIC, HEX SOCKET, M5 X 12		8
15	204-167	WASHER, METRIC, PLAIN, SMALL PATTERN, M5		8

LM-1430875



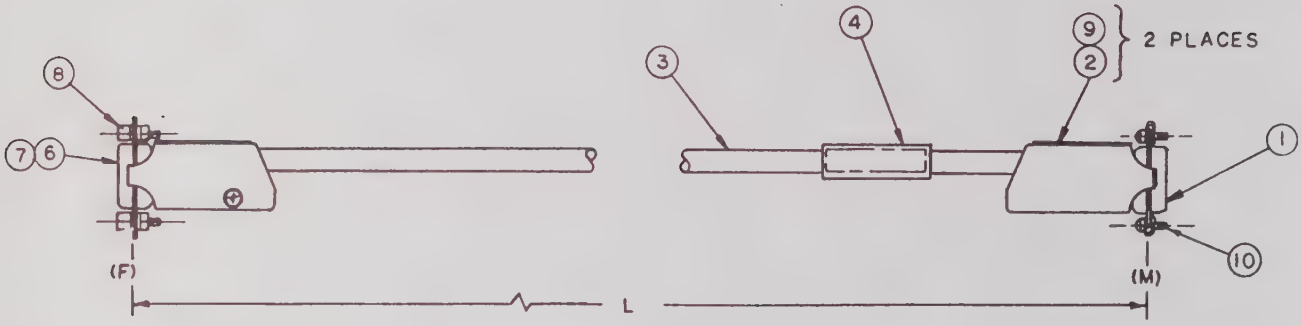
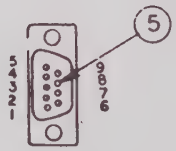


TABLE	
VERSION	L ± 5 CM
- AA	5 MTR
- AB	10 MTR
- AC	20 MTR
- AD	30 MTR



				ITEM NO.	PART NUMBER	DESCRIPTION
1	1	1	1	10	177-443	CONNECTOR PART, KIT MALE METRIC
AR	AR	AR	AR	9	600-587	SLEEVING; TEFLON; FLEXIBLE 20 AWG
1	1	1	1	8	177-442	CONNECTOR PART, KIT FEMALE METRIC
1	1	1	1	7	167-835	CONNECTOR, BODY, 9 POS, FEMALE
9	9	9	9	6	167-479	CONNECTOR PART, SOCKET
9	9	9	9	5	167-477	CONNECTOR PART; CONTACT PIN
AR	AR	AR	AR	4	600-257	SLEEVING, SHRINKABLE, PLASTIC, .500 O.D.
AR	AR	AR	AR	3	636-035	CABLE
2	2	2	2	2	177-072	CLAMP, ASSEMBLY KIT
1	1	1	1	1	167-845	CONNECTOR
AD	AC	AB	AA			

Assembly No. 1430925-AA thru AD A. Monitor Extension Cable

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER -01
1	1431006-AA	CABLE ASSY, COAXIAL		7
2	1431018-AA	CABLE ASSY, SERIAL CONTROL		4
3	1431019-AA	CABLE ASSY, XLR AUDIO		18

LM-1431626

ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER -01
1	1431006-AB	CABLE ASSY, COAXIAL		7
2	1431018-AB	CABLE ASSY, SERIAL CONTROL		4
3	1431019-AB	CABLE ASSY, XLR AUDIO		18

ILM-1431627

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER -01
1	1431006-AA	CABLE ASSY, COAXIAL		21
2	1431018-AA	CABLE ASSY, SERIAL CONTROL		4
3	1431019-AA	CABLE ASSY, XLR AUDIO		18

LM-1431628

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER -01
1	1431006-AB	CABLE ASSY, COAXIAL		21
2	1431018-AB	CABLE ASSY, SERIAL CONTROL		4
3	1431019-AB	CABLE ASSY, XLR AUDIO		18

LM-1431629

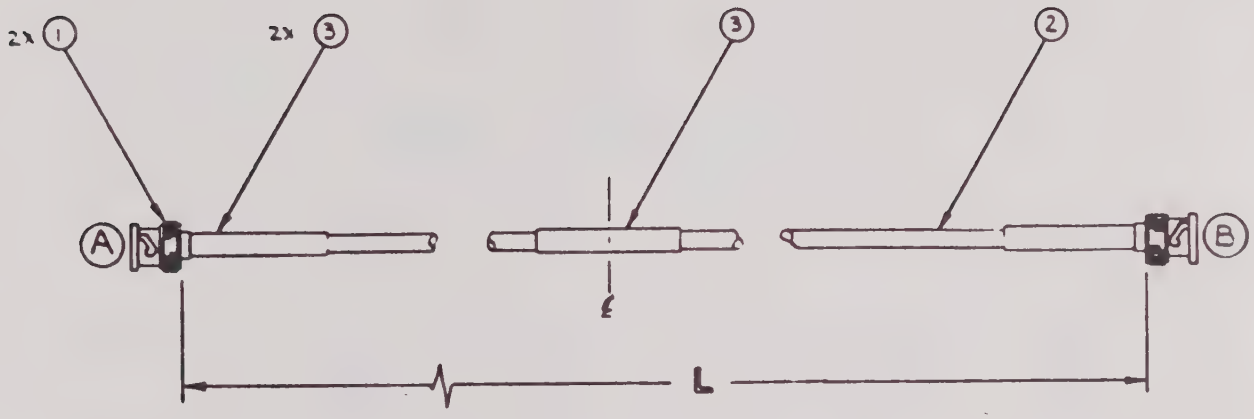
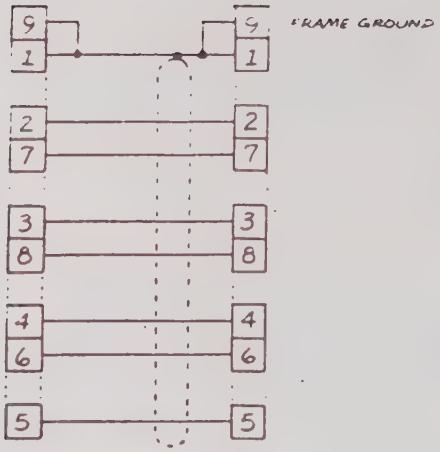


TABLE	
VERSION	L ±5CM
-AA	5 MTR
-AB	10 MTR
-AC	20 MTR
-AD	30 MTR

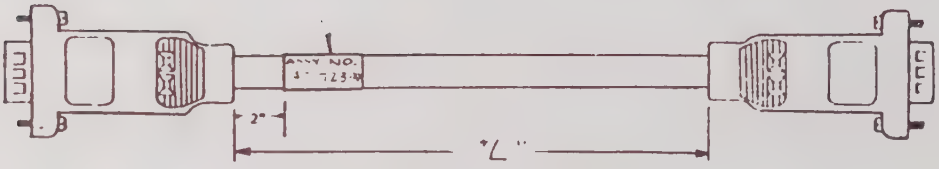
AD	AC	AB	AA	ITEM	PART NUMBER	DESCRIPTION
2	2	2	2	3	CO726	SLEEVING, SHRINK
A/R	A/R	A/R	A/R	2	636-197	CABLE, COAXIAL, 75 OHM, FLEXIBLE
2	2	2	2	1	145-444	CONNECTOR, PLUG, RF, COAX

Assembly No. 1431006-AA thru AD A. Coaxial Cable



WIRING DIAGRAM

2 CONN.



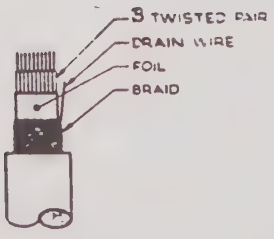
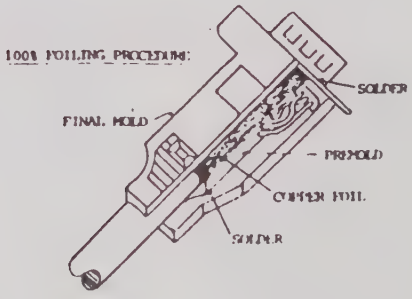


FIGURE A
NO SCALE



VERSION	L ±10CM
-AA	5 METER
-AB	10 METER
-AC	20 METER
-AD	30 METER

Assembly No. 1431018-AA thru AD A, Serial Control Cable

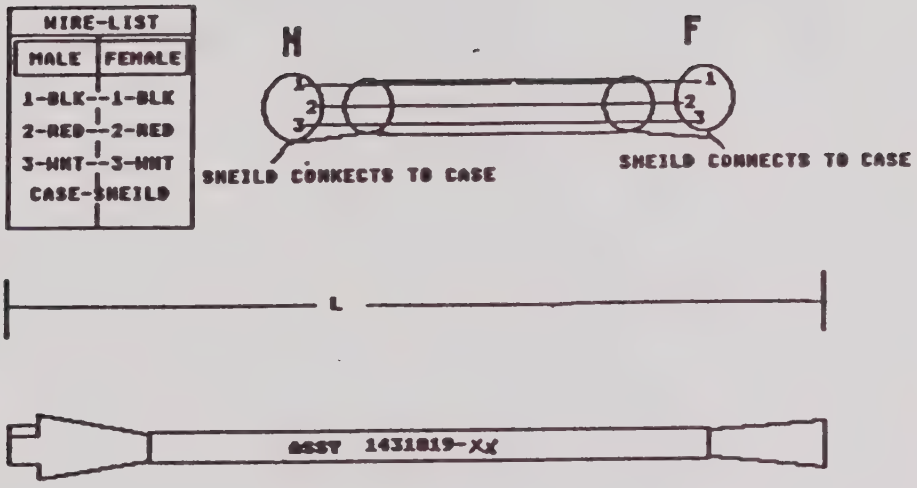
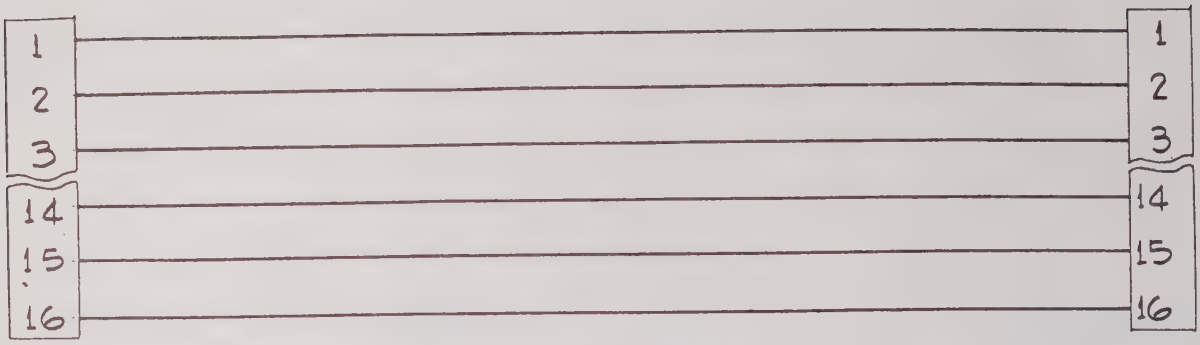


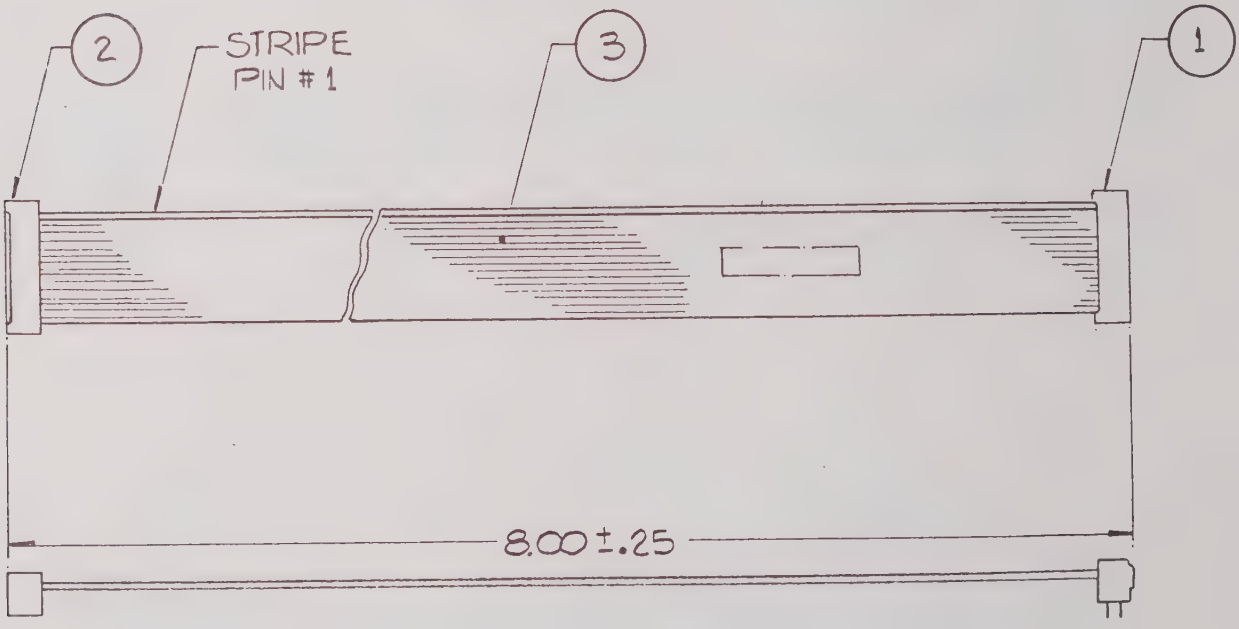
TABLE	
VERS	L ±10CM
-AA	5 meter
-AB	10 meter
-AC	20 meter
-AD	30 meter

ITEM	PART NO.	DESCRIPTION	REF.	QUAN.
1	144-003	CONNECTOR, XLR TYPE, FEMALE 3 POS.		1
2	143-009	CONNECTOR, XLR TYPE, MALE 3 POS.		1
3	616-714	CABLE 3 cond. plus sheild 22 AWG		AR
4	202-063	LABEL		AR
5				
6				
7				

Assembly No. 1431019-AA-AB A. XLR Audio Cable



SCHEMATIC



AR	4	202-065	LABEL	
AR	3	636-318	CABLE RIBBON, 16COND, 28AWG	
1	2	141-847	CONNECTOR, SIGNAL CKT, FLAT, 16CONT	
1	1	141-162	CONNECTOR, FLAT CABLE, 16SPRING CONTACT	
01	ITEM NO	PART NUMBER		DESCRIPTION

Assembly No. 1431727-01-. Dumpster-Video Timing Cable

APPENDIX A

CONDOR INC.

VENDOR PART NO. SDM2005E

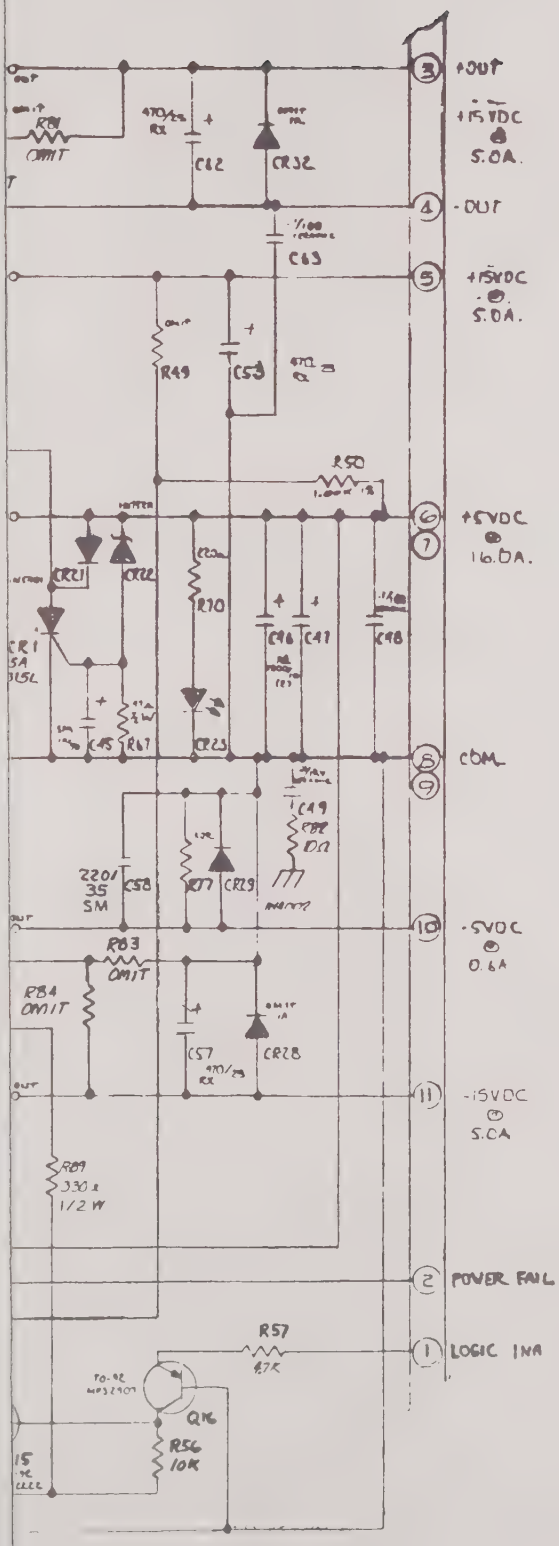
TABLE OF CONTENTS

TITLE/MODEL NO.	DOC/SCHEMATIC NO.	REV.	PAGE NO.
Power Supply	SDM200E	F	A-1
Power Supply PCB	04-SDM200E	M	A-2
Schematic	31-SDM200E	G	A-5

....ASSEMBLY.....		.....	.....COMPONENT.....				
NUMBER	DESCR.	REC	NUMBER	DESCRIPTION	BIN	QUANTITY	REFERENCE DESIGNATOR
SDM200E	SDM200E	SWITCHER		F 3061			
		00010	04-SDM200E	PCB ASSY,SDM200E		1.000	FN1
		00020	05-30074-0001	XFMR,EMI INPUT,200W		1.000	T1
		00030	05-30077-0001	XFMR-DRIVE		1.000	T2
		00040	05-30837-0001	XFMR,SDM200E		1.000	T3
		00050	08-30370-0001	HEAT SINK,PLATED,INPUT,200		1.000	FN2
		00060	08-30371-0001	HEAT SINK,OUTPUT,200		1.000	FN3
		00065	08-30371-0002	HEAT SINK BRACKET,OUTPUT,200		1.000	FN6
		00070	10-30124-0002	CAP.,AL.,1000/200V,RADIAL,CE		2.000	C5,6
		00080	11-30177-0001	XSTR,SWITCHING,MJ12005,TESTED		1.000	Q2
		00090	12-30168-0003	RECT,UF RCVY,MUR3010		1.000	CR19
		00100	12-30167-0003	RECT,UF RCVY,MUR1510,TO-220		3.000	CR24,27,30
		00110	13-30197-0005	VOLT REG,NEG,MC7905CT,TO-220		1.000	U5
		00120	14-30198-0003	THYRISTOR,SCR,MCR69-2,TO-220		1.000	SCR1
		00130	19-30265-0218	SPRINGCLIP,MOUNTING,TO-218		1.000	FN7
		00135	19-30269-0303	INSULATOR,NYLON,TO-3,OVRESIZED		1.000	FN14
		00150	19-30266-0218	INSULATOR,MICA,TO-218,NO-HOLE		1.000	FN4
		00160	19-30267-0221	INSULATOR,MICA,TO-220		5.000	FN8
		00170	19-30268-0303	INSULATOR,MICA,TO-3,OVERSIZED		1.000	FN5
		00175	19-30304-0040	WASHER,SHOULDER,#6x.040,NYLON		5.000	FN10
		00180	19-30286-0312	SCREW,PNHD,6-32x.312,PHIL		9.000	FN11
		00185	19-30286-0375	SCREW,PNHD,6-32x.375,PHIL		2.000	FN16
		00190	19-30270-0632	NUT,ASSEM LK WASH.,6-32,SM PAT		7.000	FN9
		00200	20-30260-0050	FUSE,5.0A.,3AG		1.000	F1
		00210	20-30262-0020	FUSE,2.0A,5MMx20MM		1.000	F2
		00220	30-SDM200E	LABEL,ID,FAB PER 30-30559-0001		1.000	FN12
		00230	30-30355-0001	LABEL,HIGH VOLTAGE,CAUTION		1.000	FN13
		00240	17-30342-0900	WIRE,WHITE,18 GA,UL1430,19-ST		0.750	FN15
		00260	18-30657-0006	TERM.,RING,#6,NON-INS.,22-16GA		1.000	FN18
		00270	30-30527-0001	LABEL,CAUTION,0.5 x 1.50		1.000	FN19

....ASSEMBLY.....		.....COMPONENT.....				
NUMBER	DESCR.	REC NUMBER	DESCRIPTION	BIN	QUANTITY	REFERENCE DESIGNATOR
04-SDM200E	PCB ASSY,SDM200E		M 2887			
		00010 03-30062-0001	CKT BD W/HDW, SDM200A		1.000	
		00020 05-30078-0001	CHOKE,OUTPUT,5.0A		3.000	L3,4,6
		00030 05-30081-0001	CHOKE,OUTPUT,5A,2UH		1.000	L2
		00040 06-30358-0001	HARNESS,115V/230V,SELECT		1.000	W1
		00050 10-30179-0224	CAP.,EMI FILT.,0.22/250V,X		2.000	C1,2
		00060 10-30180-0472	CAP.,EMI FILT.,.0047/250V,Y		2.000	C3,4
		00070 10-30120-0014	CAP.,AL.,100/16V,RADIAL,SM		2.000	C9,25
		00080 10-30120-0012	CAP.,AL.,47/50V,RADIAL,SM		1.000	C10
		00090 10-30181-0104	CAP.,POLY FILM,0.1/400V,MET		1.000	C12
		00100 10-30183-0331	CAP.,CER,DISC,330pf/3KV,+/-20%		1.000	C13
		00110 10-30178-0223	CAP.,POLY FILM,.022/100V.,IND.		5.000	C11,14,15,18,22
		00120 10-30120-0013	CAP.,AL.,47/16V,RADIAL,SM		1.000	C26
		00130 10-30178-0473	CAP.,POLY FILM,.047/100V.,IND.		2.000	C16,17
		00140 10-30120-0008	CAP.,AL.,1/50V,RADIAL,SM		2.000	C19,32
		00150 10-30120-0016	CAP.,AL.,470/6.3V,RADIAL,SM		1.000	C20
		00160 10-30178-0224	CAP.,POLY FILM,0.22/100V.,IND.		1.000	C23
		00170 10-30182-0101	CAP.,CER,DISC,100pf/1KV,+/-20%		1.000	C24
		00175 10-30120-0017	CAP.,AL.,0.47/50V,RADIAL,SM		1.000	C30
		00185 10-30122-0003	CAP.,AL.,470/25V,RADIAL,RX		9.000	C60,61,62,53,55,57,56,51,52
		00190 10-30178-0104	CAP.,POLY FILM,0.1/100V.,IND.		3.000	C33,34,35
		00200 10-30178-0103	CAP.,POLY FILM,.01/100V.,IND.		4.000	C27,50,54,59
		00210 10-30122-0001	CAP.,AL.,1000/10V,RADIAL,RX		9.000	C37,38,39,40,41,42,43,46,47
		00220 10-30120-0015	CAP.,AL.,10/50V,RADIAL,SM		2.000	C45,68
		00230 10-30184-0104	CAP.,CER,MONO,0.1/100V,+/-20%		2.000	C48,63
		00240 10-30182-0103	CAP.,CER,DISC,.01/1KV,+/-20%		1.000	C49
		00245 10-30120-0018	CAP.,AL.,220/35V,RADIAL,SM		1.000	C58
		00247 10-30123-0004	CAP.,AL.,100/25V,RADIAL,SME		1.000	C64
		00249 10-30183-0331	CAP.,CER,DISC,330pf/3KV,+/-20%		1.000	C69
		00250 11-30174-0002	XSTR,MPS2907A,PNP,TO-92,LD/FMD		6.000	Q1,5,8,9,16,19
		00260 11-30174-0001	XSTR,MPS2222A,NPN,TO-92,LD/FMD		8.000	Q3,4,6,7,10,15,17,18
		00270 12-30204-0600	RECT,STD RCVY,1N5406,3.0A		2.000	CR3,4
		00275 12-30206-0600	RECT.,STD,RCVY,MR756,6.0A.		2.000	CR1,2
		00280 12-30200-0100	RECT,STD RCVY,1N4002,1.0A		2.000	CR5,29
		00290 12-30208-1000	RECT,FST RCVY,BYV96E,1.0A		1.000	CR6
		00300 12-30220-0047	DIODE,ZENER,1N4732A,1.0W		1.000	CR7
		00310 12-30222-0001	DIODE,SM SGL,1N4448		2.000	CR10,16
		00320 12-30208-0100	RECT,FST RCVY,1N4934,1.0A		2.000	CR8,11
		00330 12-30204-0100	RECT,STD RCVY,1N5401,3.0A		1.000	CR21
		00340 12-30218-0056	DIODE,ZENER,1N752A,500mW		1.000	CR22
		00350 12-30194-0001	DIODE,LIGHT EMITTING,RED		1.000	CR23
		00360 13-30192-0001	I.C.,REF,TL431CLP,TO-92		1.000	U2
		00370 15-30193-0001	OPTO-COUPLER,SOC627A,6P DIP		1.000	U1
		00380 16-30132-0682	RES.,C.F.,6.8K,1/4W,+/-5%		1.000	R1
		00390 16-30132-0105	RES.,C.F.,1.0M,1/4W,+/-5%		1.000	R4
		00400 16-30132-0683	RES.,C.F.,68K,1/4W,+/-5%		1.000	R3
		00410 16-30132-0102	RES.,C.F.,1.0K,1/4W,+/-5%		5.000	R7,27,31,77,87
		00415 16-30138-1001	RES.,M.F.,1.00K,1/4W,+/-1%		1.000	R63
		00420 16-30132-0471	RES.,C.F.,470 OHM,1/4W,+/-5%		2.000	R24,64
		00430 16-30132-0470	RES.,C.F.,47 OHM,1/4W,+/-5%		5.000	R26,32,38,39,58
		00440 16-30132-0220	RES.,C.F.,22 OHM,1/4W,+/-5%		3.000	R10,22,28
		00450 16-30132-0222	RES.,C.F.,2.2K,1/4W,+/-5%		4.000	R25,30,37,88
		00460 16-30132-0152	RES.,C.F.,1.5K,1/4W,+/-5%		1.000	R23

....ASSEMBLY..... NUMBER	DESCR.	REC	.....COMPONENT..... NUMBER	DESCRIPTION	BIN	QUANTITY	REFERENCE DESIGNATOR
04-SDM200E	PCB ASSY,SDM200E			M 2887			
		00470	16-30132-0270	RES.,C.F.,27 OHM,1/4W,+/-5%		1.000	R18
		00480	16-30132-0820	RES.,C.F.,82 OHM,1/4W,+/-5%		2.000	R17,21
		00490	16-30132-0103	RES.,C.F.,10K,1/4W,+/-5%		2.000	R29,56
		00500	16-30132-0221	RES.,C.F.,220 OHM,1/4W,+/-5%		2.000	R46,70
		00510	16-30132-0472	RES.,C.F.,4.7K,1/4W,+/-5%		1.000	R57
		00515	16-30132-0682	RES.,C.F.,6.8K,1/4W,+/-5%		1.000	R62
		00520	16-30132-0101	RES.,C.F.,100 OHM,1/4W,+/-5%		1.000	R45
		00523	16-30132-0681	RES.,C.F.,680 OHM,1/4W,+/-5%		1.000	R9
		00524	16-30134-0331	RES.,C.F.,330 OHM,1/2W,+/-5%		1.000	R89
		00525	16-30132-0100	RES.,C.F.,10 OHM,1/4W,+/-5%		1.000	R82
		00530	16-30132-0332	RES.,C.F.,3.3K,1/4W,+/-5%		1.000	R61
		00550	16-31481-0823	RES.,CARBON COMP,82K,1/2W,5%		2.000	R5,6
		00555	16-30134-0470	RES.,C.F.,47 OHM,1/2W,+/-5%		1.000	R67
		00557	16-30144-0501	RES,VAR,C.F.,500 OHM,1/4W,HORZ		1.000	R34
		00560	16-30138-1000	RES.,M.F.,100 OHM,1/4W,+/-1%		1.000	R35
		00570	16-30138-2211	RES.,M.F.,2.21K,1/4W,+/-1%		1.000	R33
		00580	16-30138-2001	RES.,M.F.,2.00K,1/4W,+/-1%		2.000	R19,20
		00590	16-30138-1001	RES.,M.F.,1.00K,1/4W,+/-1%		2.000	R47,50
		00600	16-30138-1372	RES.,M.F.,13.7K,1/4W,+/-1%		1.000	R60
		00610	16-30138-2742	RES.,M.F.,27.4K,1/4W,+/-1%		1.000	R59
		00620	16-30140-0154	RES.,M. OXD.,150K,2W,+/-5%		3.000	R11,12,13
		00630	16-30140-0331	RES.,M.O.,330 OHM,2W,+/-5%		1.000	R14
		00640	16-30140-0129	RES.,M. OXD.,1.2 OHM,2W,+/-5%		2.000	R15,16
		00645	16-30140-0331	RES.,M.O.,330 OHM,2W,+/-5%		4.000	R74,75,78,79
		00650	16-30140-0161	RES.,M. OXD.,160 OHM,2W,+/-5%		3.000	R36,71,72
		00660	16-30140-0220	RES.,M. OXD.,22 OHM,2W,+/-5%		1.000	R68
		00670	16-30882-0501	RES.,VAR,CERMET,500 OHM,1/4W		1.000	R48
		00680	16-30185-0002	THRMSTR,10 OHM/5A,SURGE LMTG		1.000	R2
		00685	17-30306-0120	WIRE,JUMPER,1.2 IN.,22 GA.		1.000	W10
		00690	17-30965-0040	WIRE,BARE TND COPPER,0.4",22GA		1.000	W11
		00700	18-30199-0003	TERM BLK,PCB,3 POS,.375 CTR		1.000	TB1
		00710	18-30199-0011	TERM BLK,PCB,11 POS,.375 CTR		1.000	TB2
		00720	19-30250-0001	FUSECLIP,PCB,44FH053,.250 FUSE		2.000	FOR F1
		00730	19-30251-0001	FUSECLIP,PCB,44FH052,5MM FUSE		2.000	FOR F2
		00740	17-30965-0040	WIRE,BARE TND COPPER,0.4",22GA		3.000	W2,5,8
		00750	17-30965-0060	WIRE,BARE TND COPPER,0.6",22GA		2.000	W4,7



Schematic No. 31-SDM200E
Switching Power Supply
(Condor Inc.)

APPENDIX B

EVEREX SYSTEMS

VENDOR PART NO. EV1800-B

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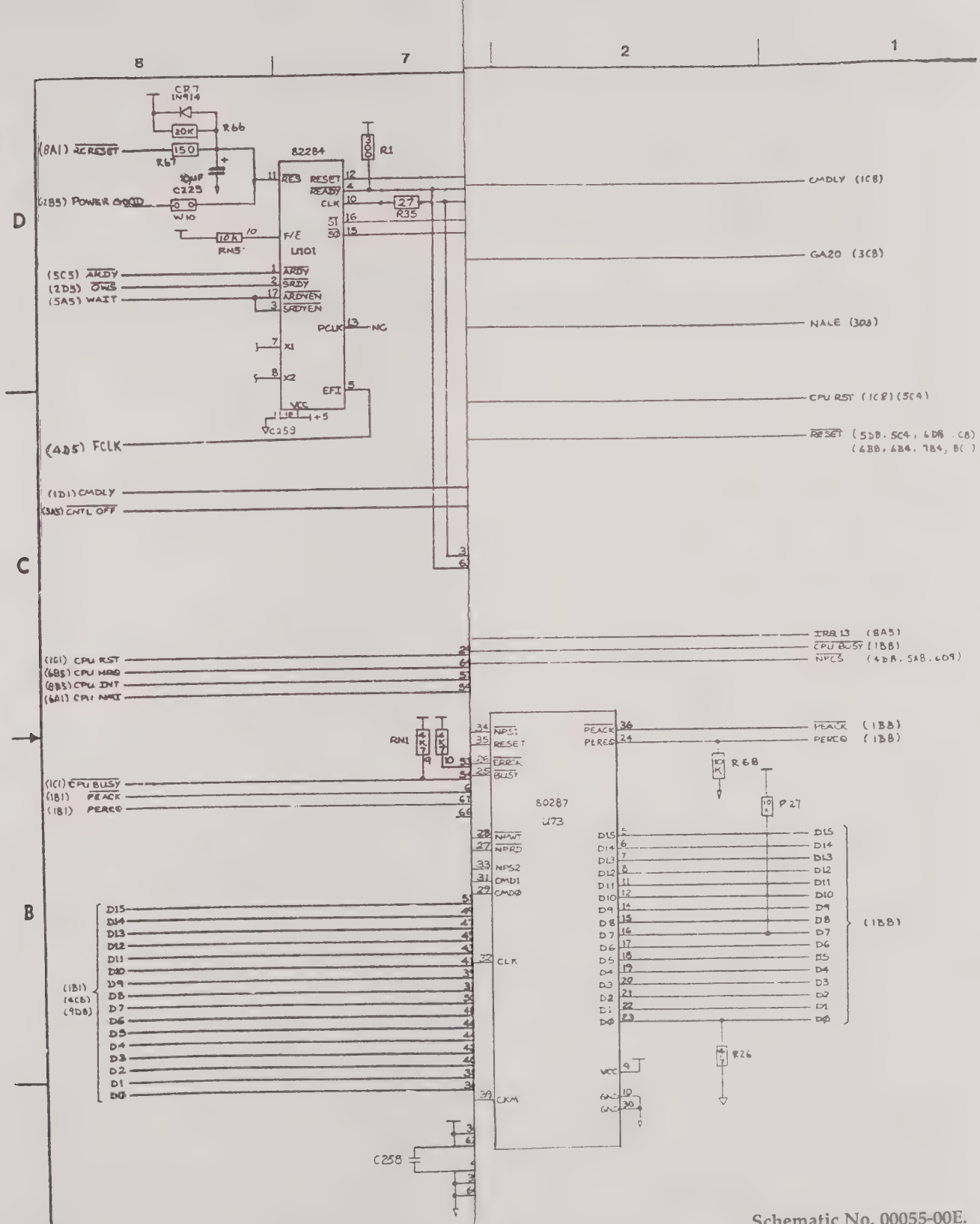
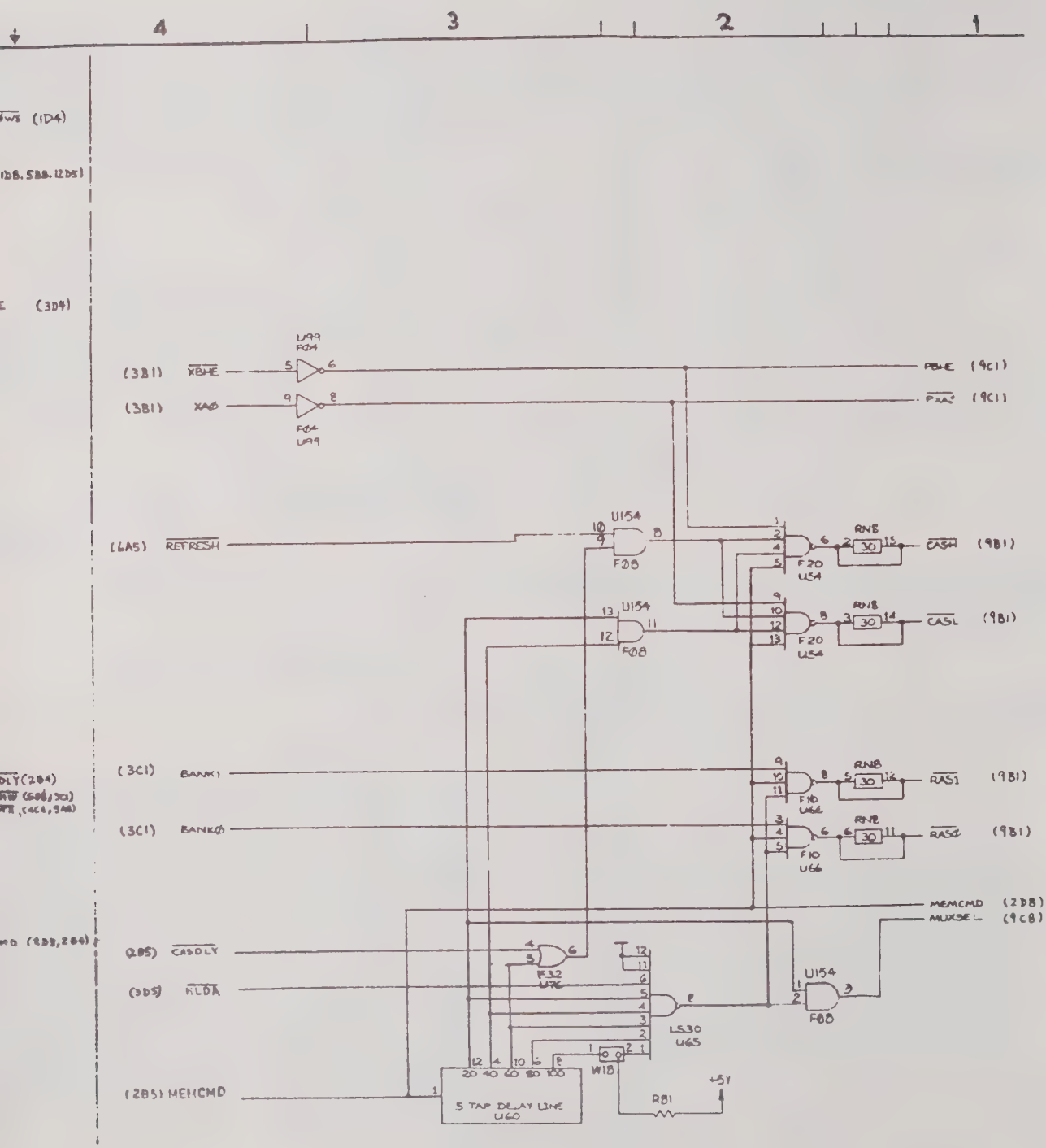
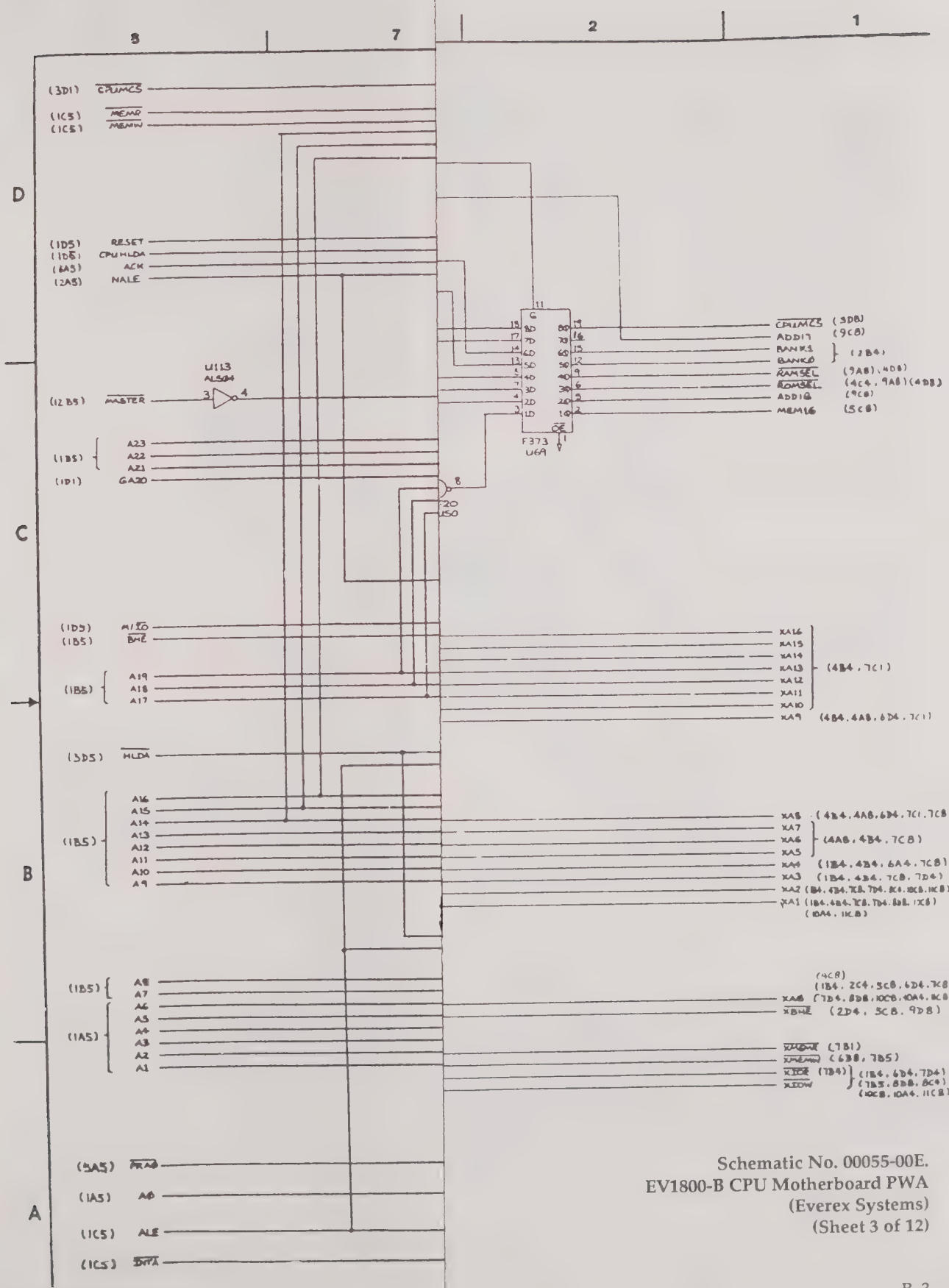
TITLE/MODEL NO.	SCHEMATIC NO.	REV.	PAGE NO.
Motherboard PWA	00055-00	E	B-1



Schematic No. 00055-00E.
EV1800-B CPU Motherboard PWA
(Everex Systems)
(Sheet 1 of 12)



Schematic No. 00055-00E.
EV1800-B CPU Motherboard PWA
(Everex Systems)
(Sheet 2 of 12)



Schematic No. 00055-00E.
EV1800-B CPU Motherboard PWA
(Everex Systems)
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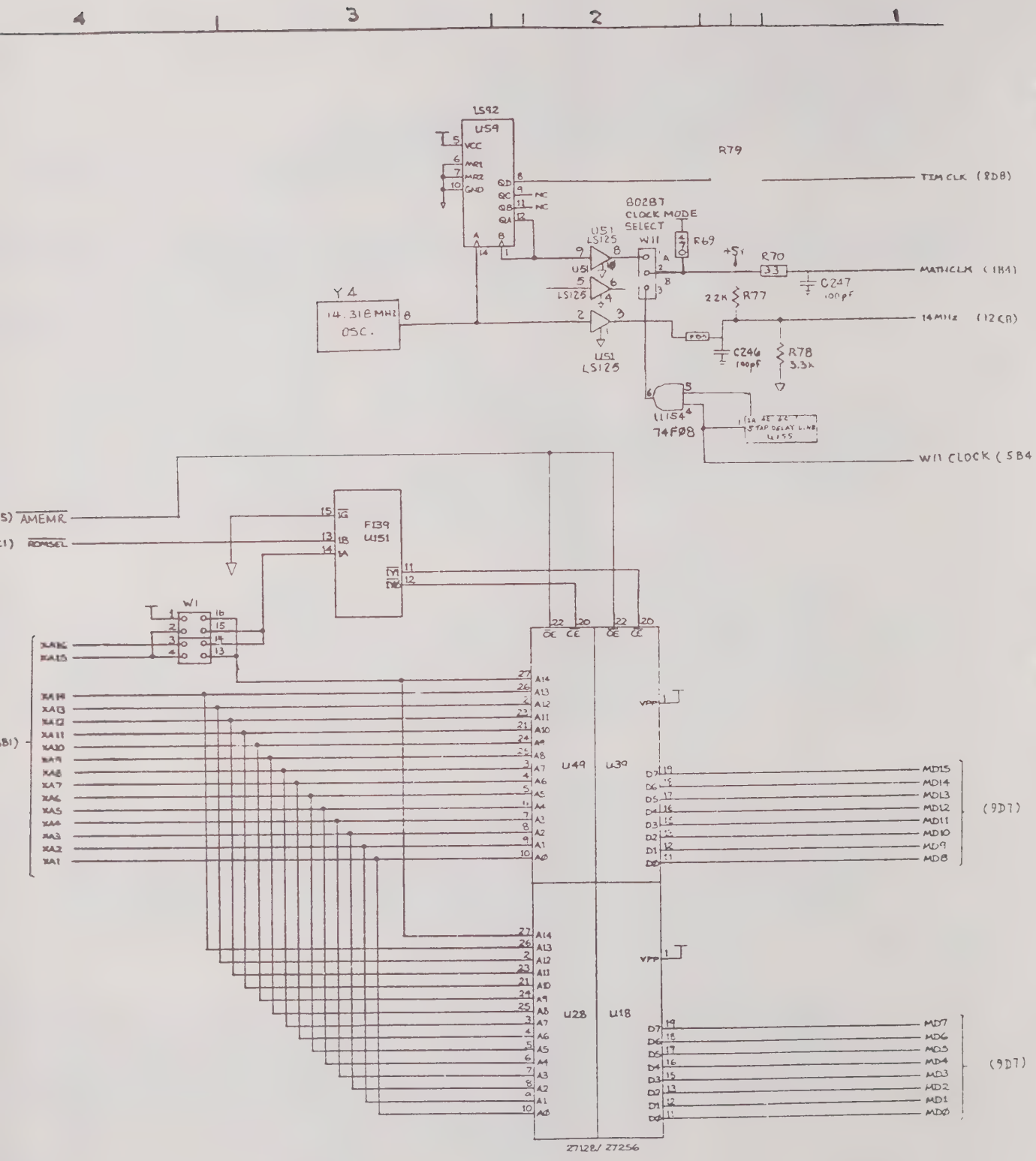

Schematic No. 00055-00E.
EV1800-B CPU Motherboard PWA
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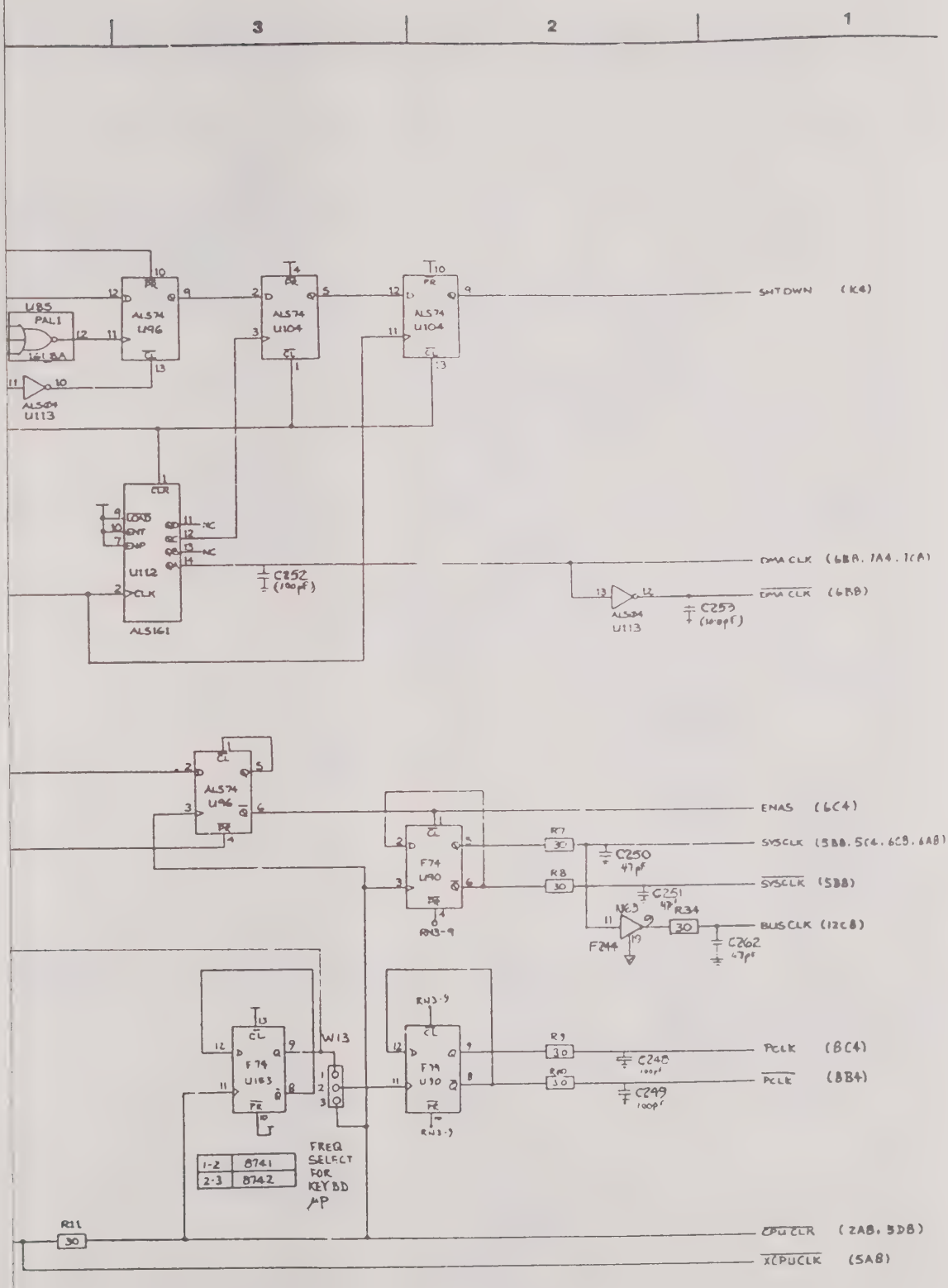

Schematic No. 00055-00E.
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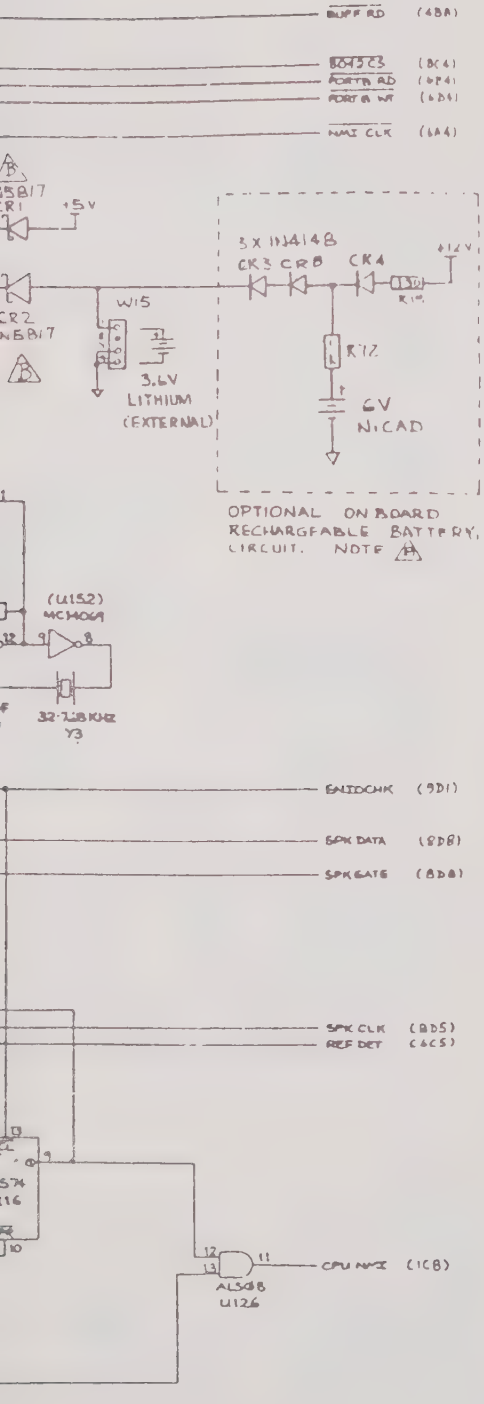

Schematic No. 00055-00E.
EV1800-B CPU Motherboard PWA
(Everex Systems)
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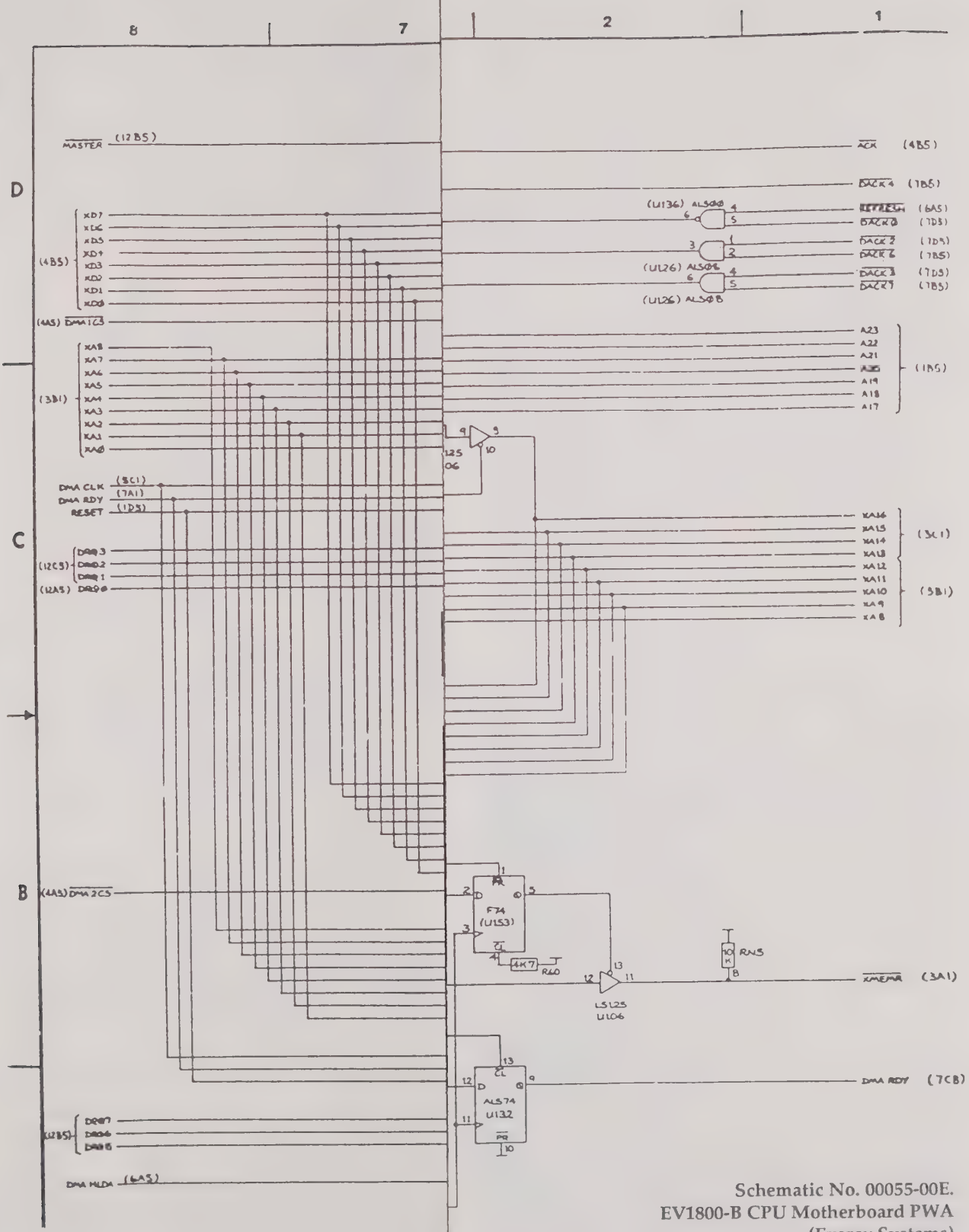
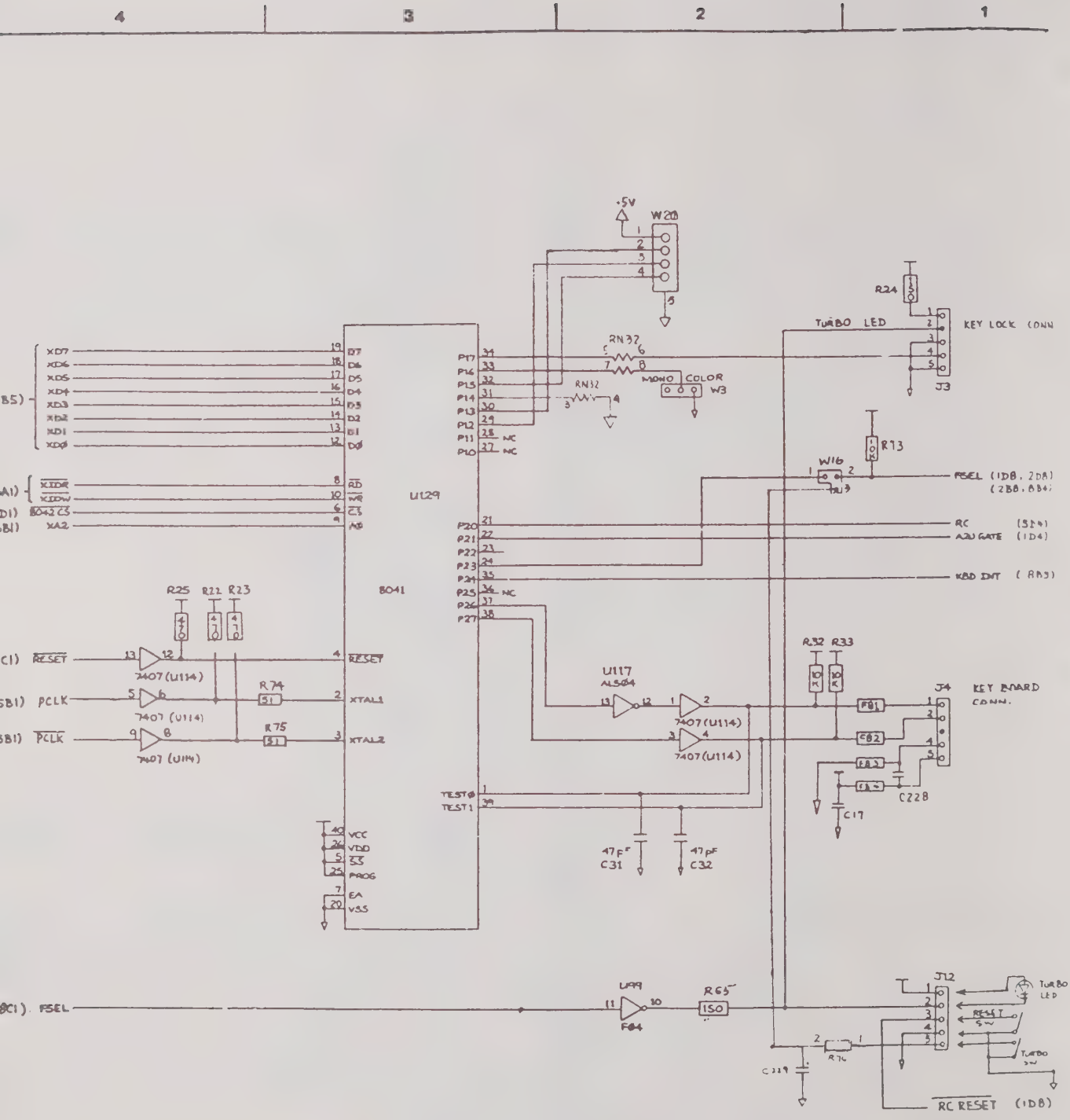


Schematic No. 00055-00E.
EV1800-B CPU Motherboard PWA
(Everex Systems)
(Sheet 7 of 12)



Schematic No. 00055-00E.
EV1800-B CPU Motherboard PWA
(Everex Systems)
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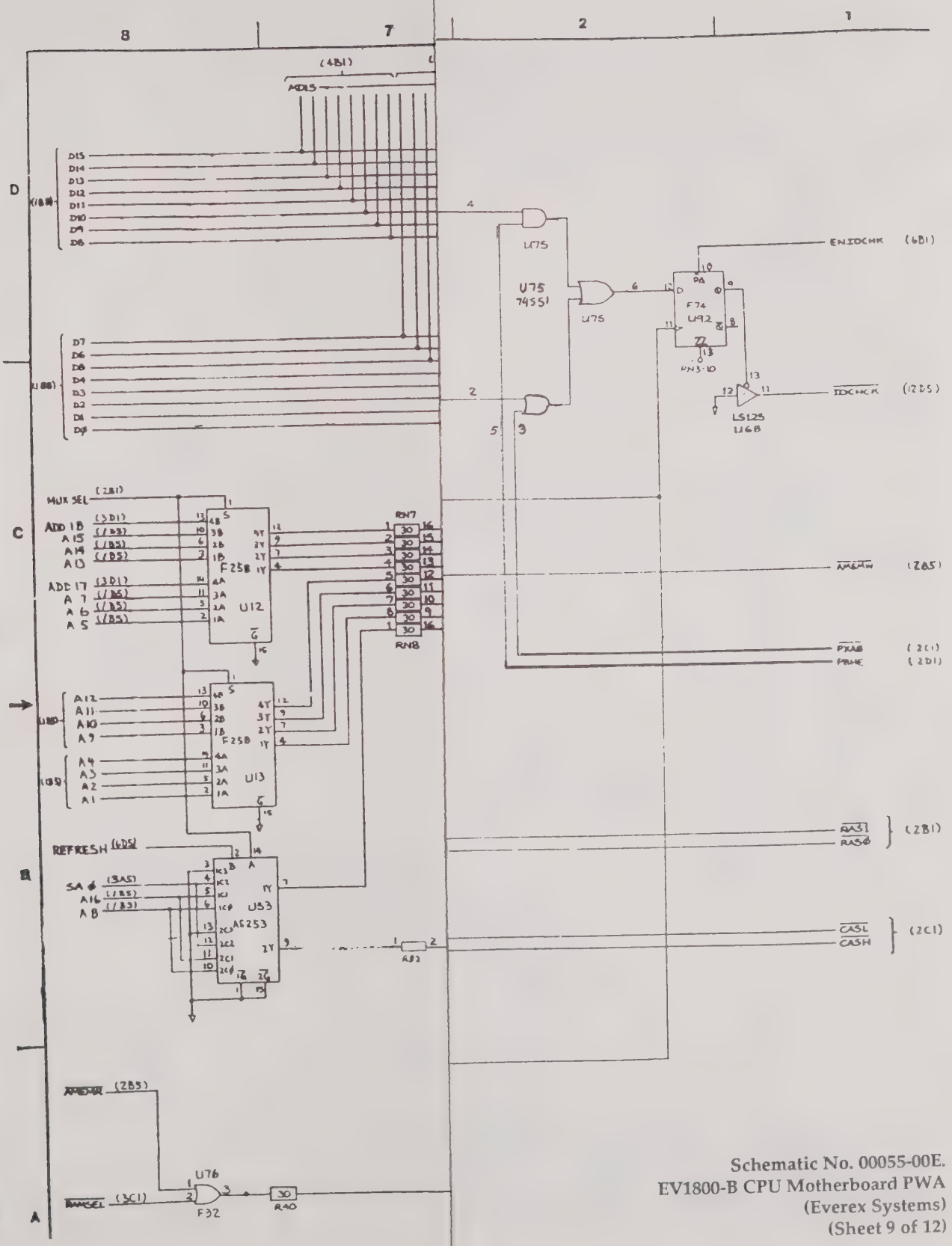
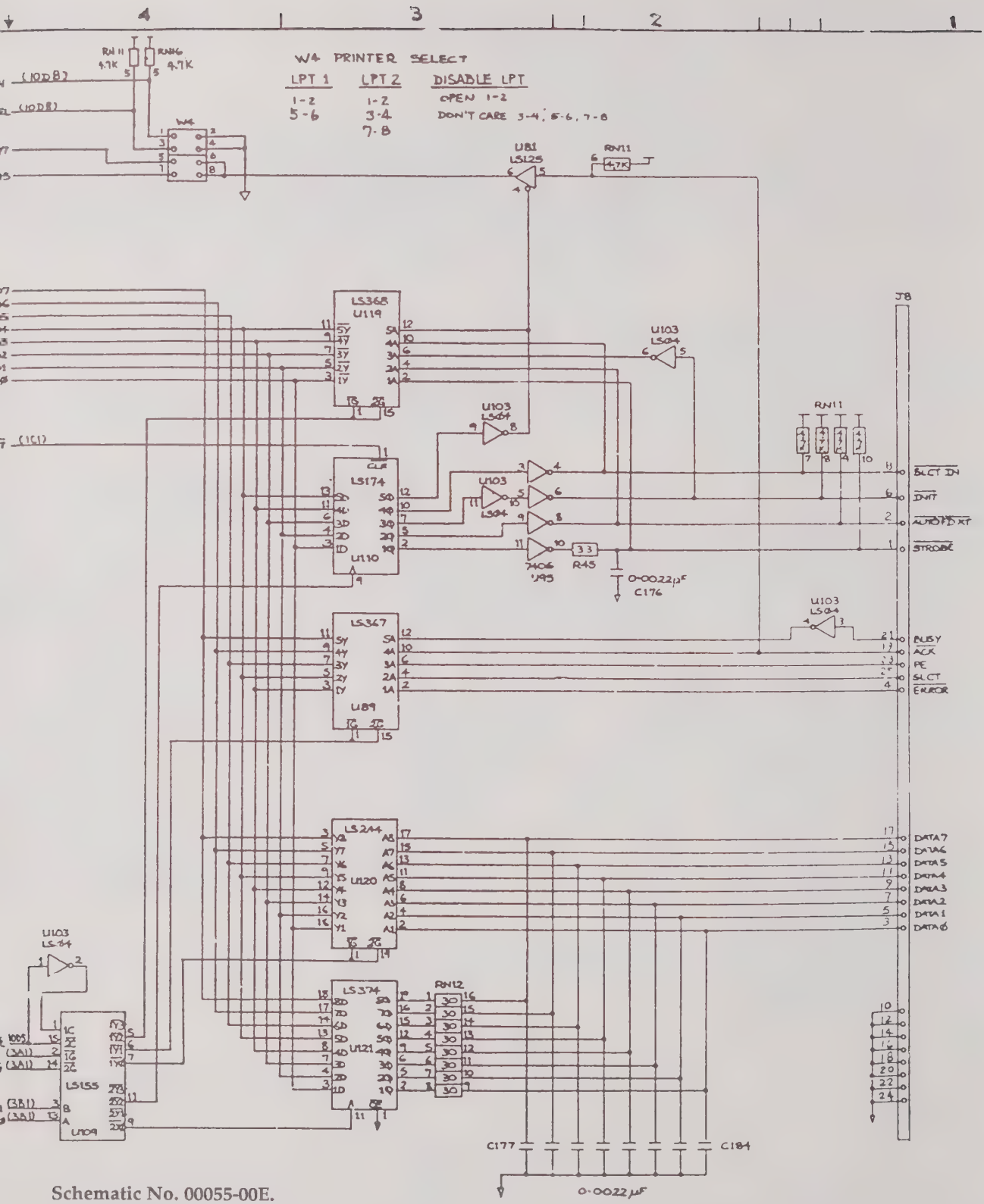


Schematic No. 00055-00E.
EV1800-B CPU Motherboard PWA
(Everex Systems)
(Sheet 9 of 12)



Schematic No. 00055-00E.
EV1800-B CPU Motherboard PWA
(Everex Systems)
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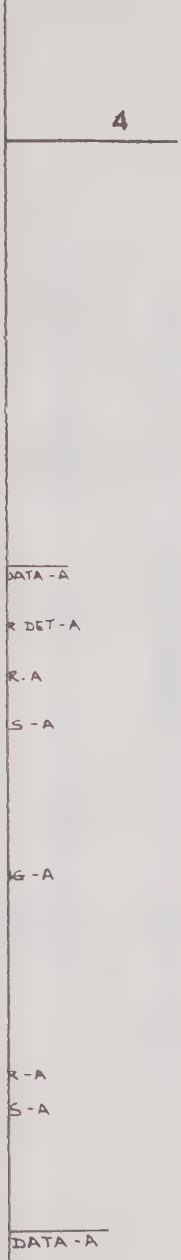

Schematic No. 00055-00E.
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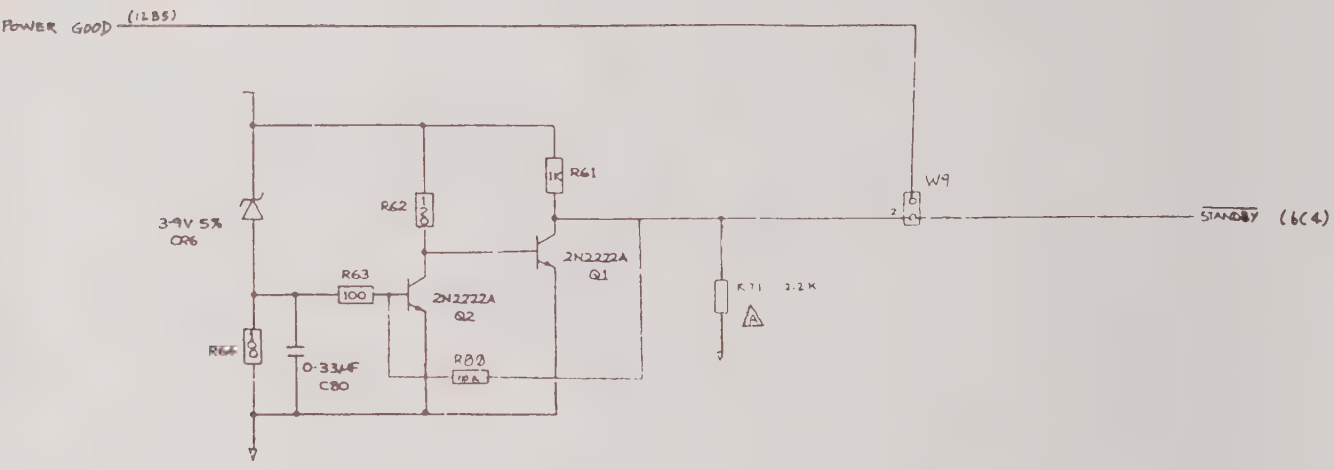

NOTES: ⚠A: NOT USED.

⚠B: WHEN "POWER GOOD" FROM POWER SUPPLY IS USED, i.e. W9 1-2 JUMPERED, CIRCUITS ON THIS PAGE WILL NOT BE STUFFED. NORMAL CONDITION USES CIRCUIT ON THIS PAGE AND W9 IS OPENED.

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EV1800-B CPU Motherboard PWA
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APPENDIX C

KEY TRONICS CORP.

VENDOR PART NO. E035003051

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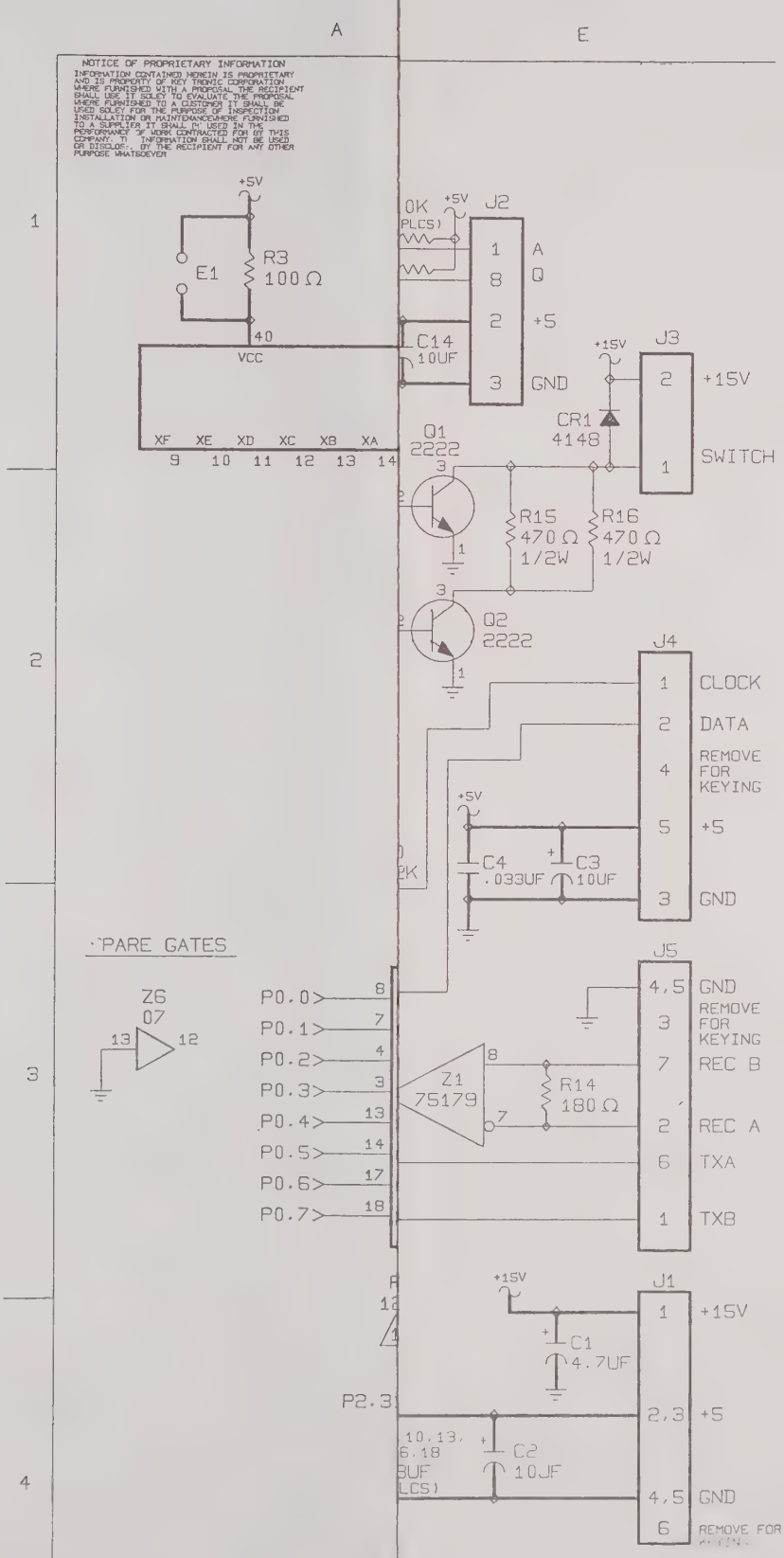
Keyboard	33664-1	A	C-1



Schematic No. 1431701-01
Keyboard
(Key Tronics Corp. 33664-1 Rev. C)

APPENDIX D

WESTERN DIGITAL CORP.

VENDOR PART NO. WD1002A-FOX

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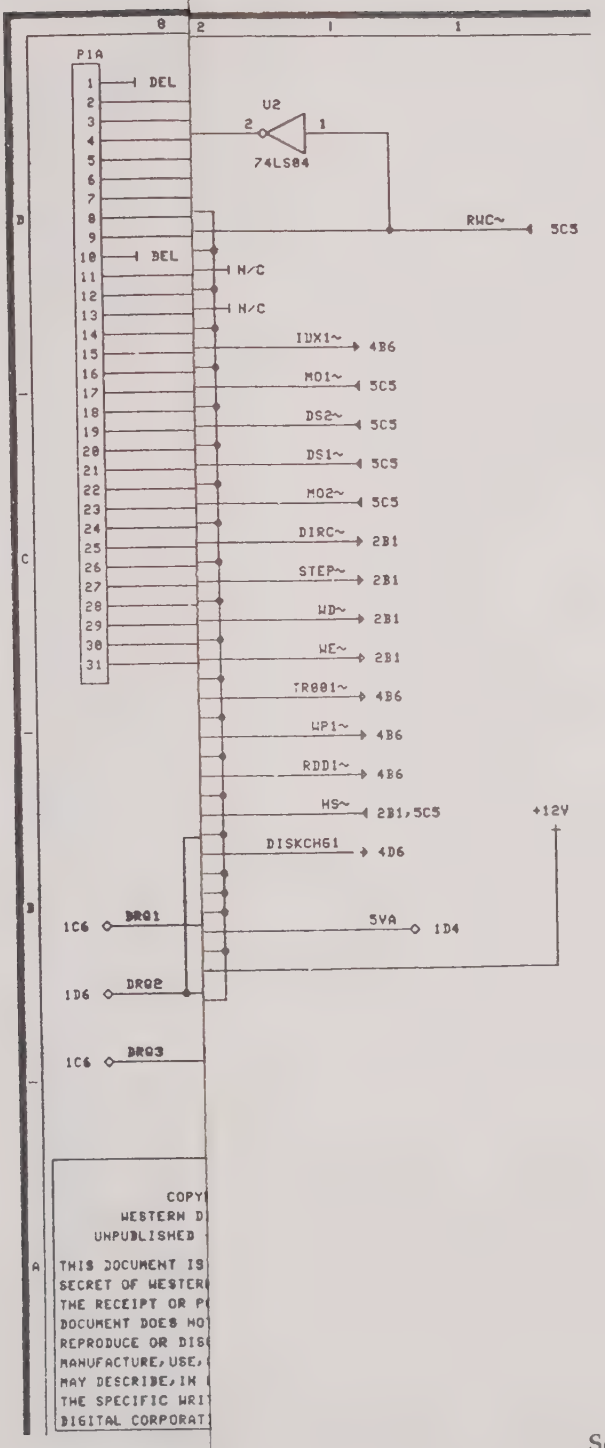
TITLE/MODEL NO.	SCHEMATIC NO.	REV.	PAGE NO.
Floppy Drive Controller PWA	688878	X8	D-1



Schematic No. 688878X8.
Floppy Drive Controller PWA
(Western Digital Corp.)
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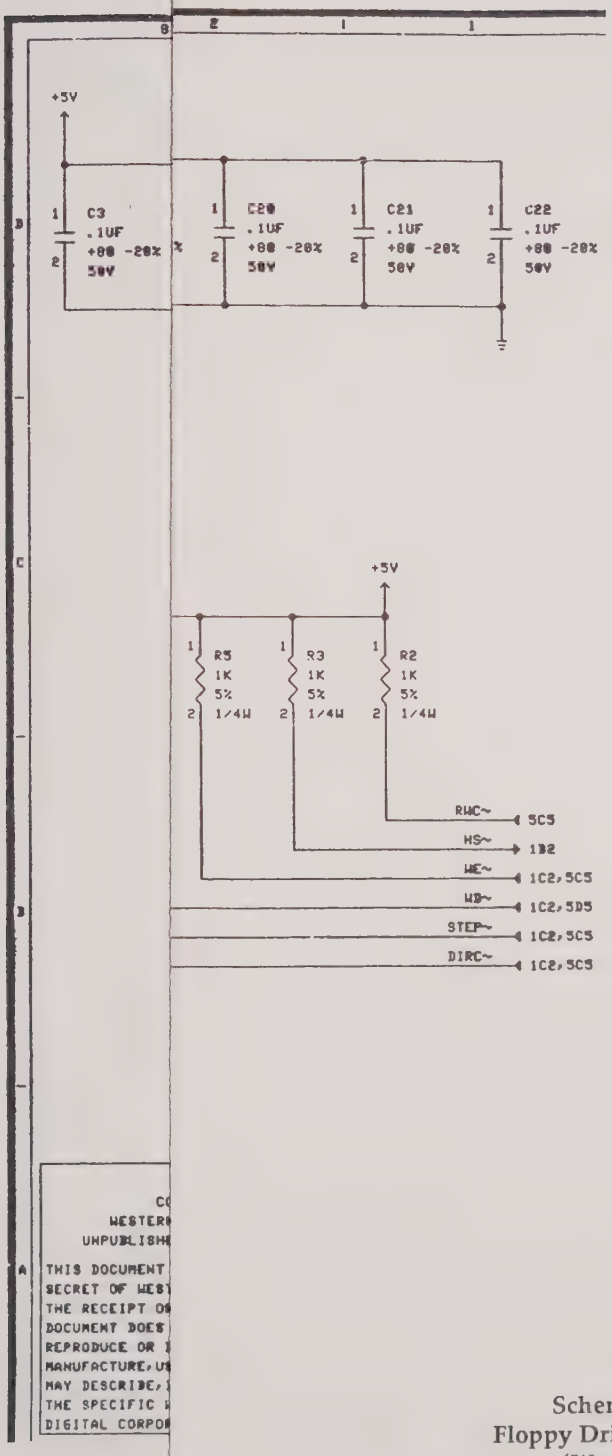
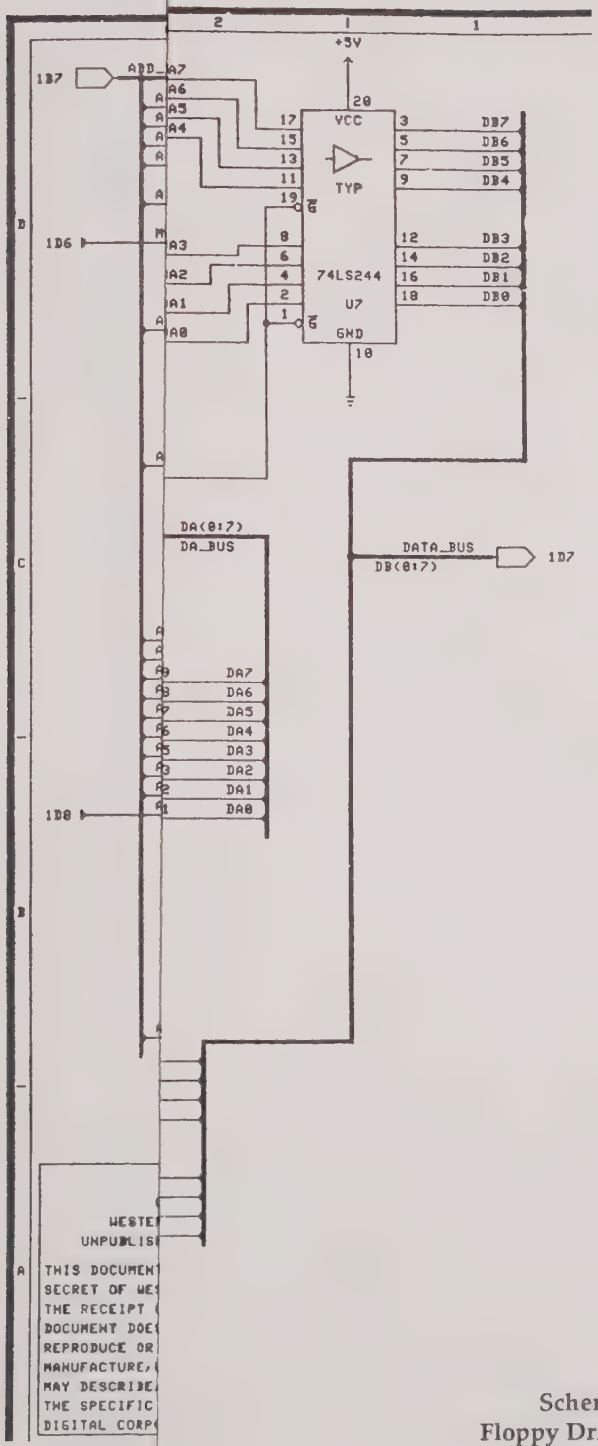
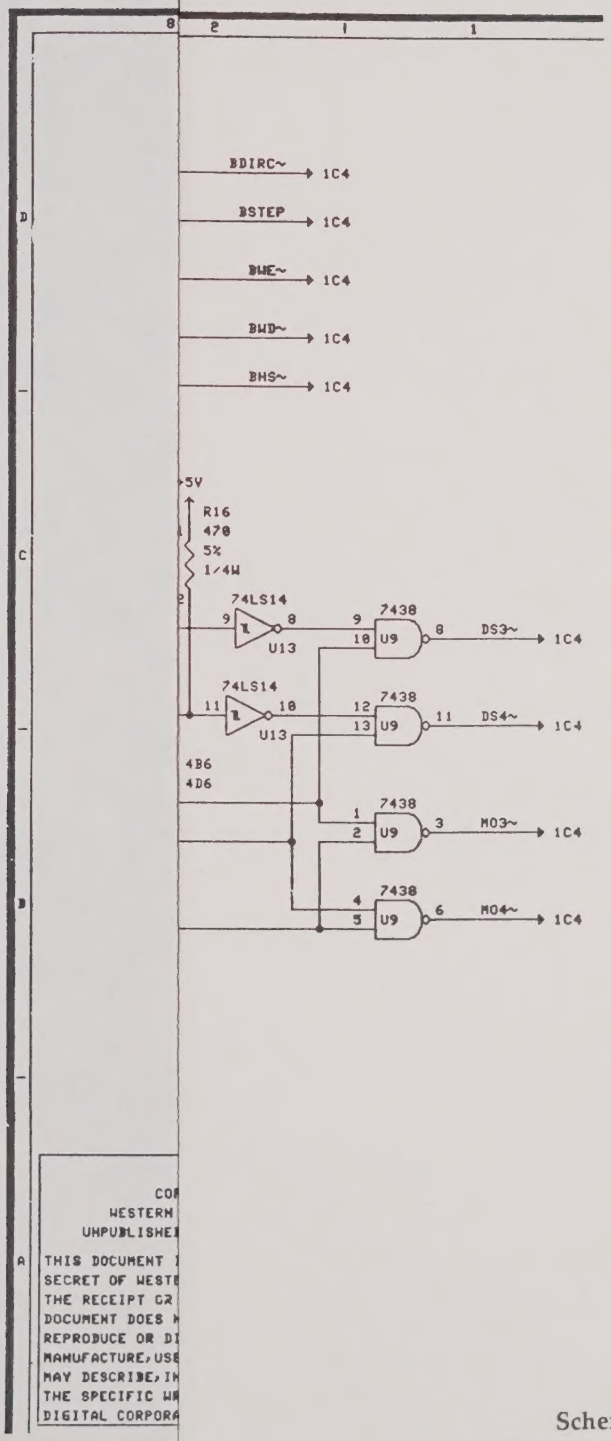


Schematic No. 688878X8.
Floppy Drive Controller PWA
(Western Digital Corp.)
(Sheet 2 of 5)



Schematic No. 688878X8.
Floppy Drive Controller PWA
(Western Digital Corp.)
(Sheet 3 of 5)

Schematic No. 688878X8.
Floppy Drive Controller PWA
(Western Digital Corp.)
(Sheet 4 of 5)



Schematic No. 688878X8.
Floppy Drive Controller PWA
(Western Digital Corp.)
(Sheet 5 of 5)